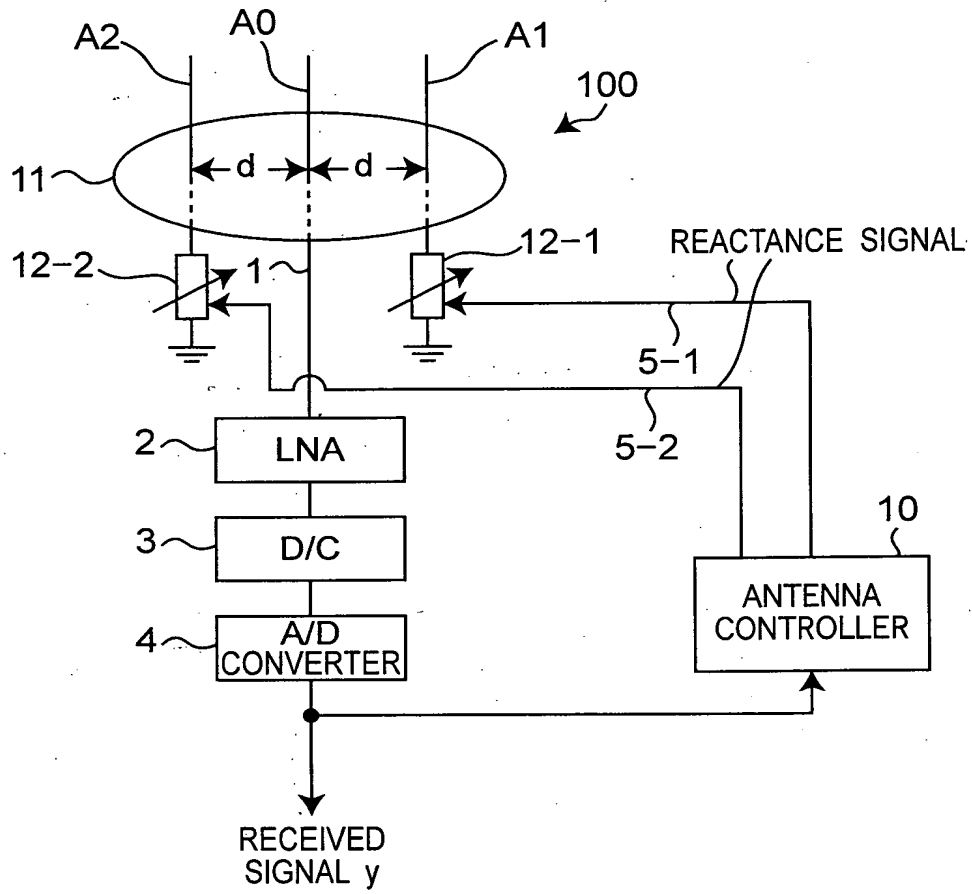
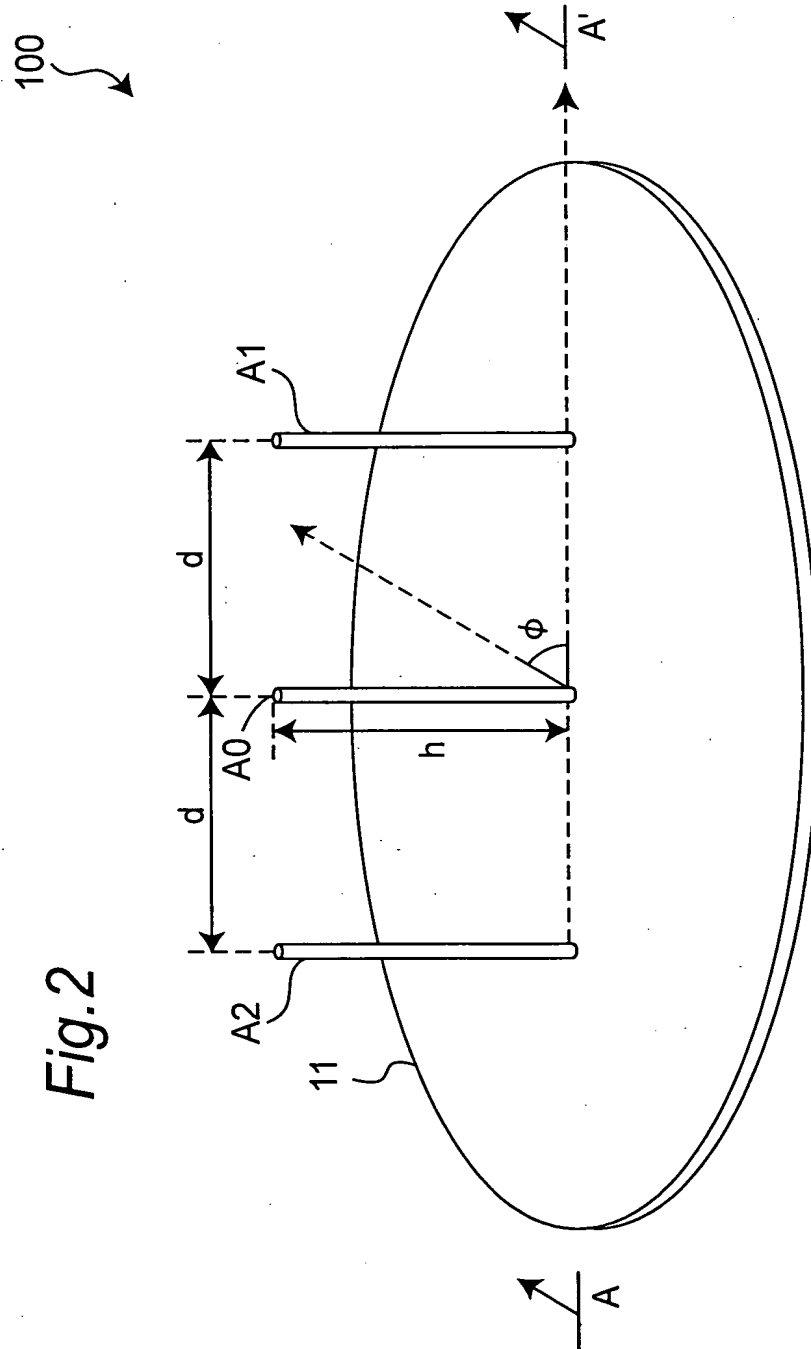


Fig. 1





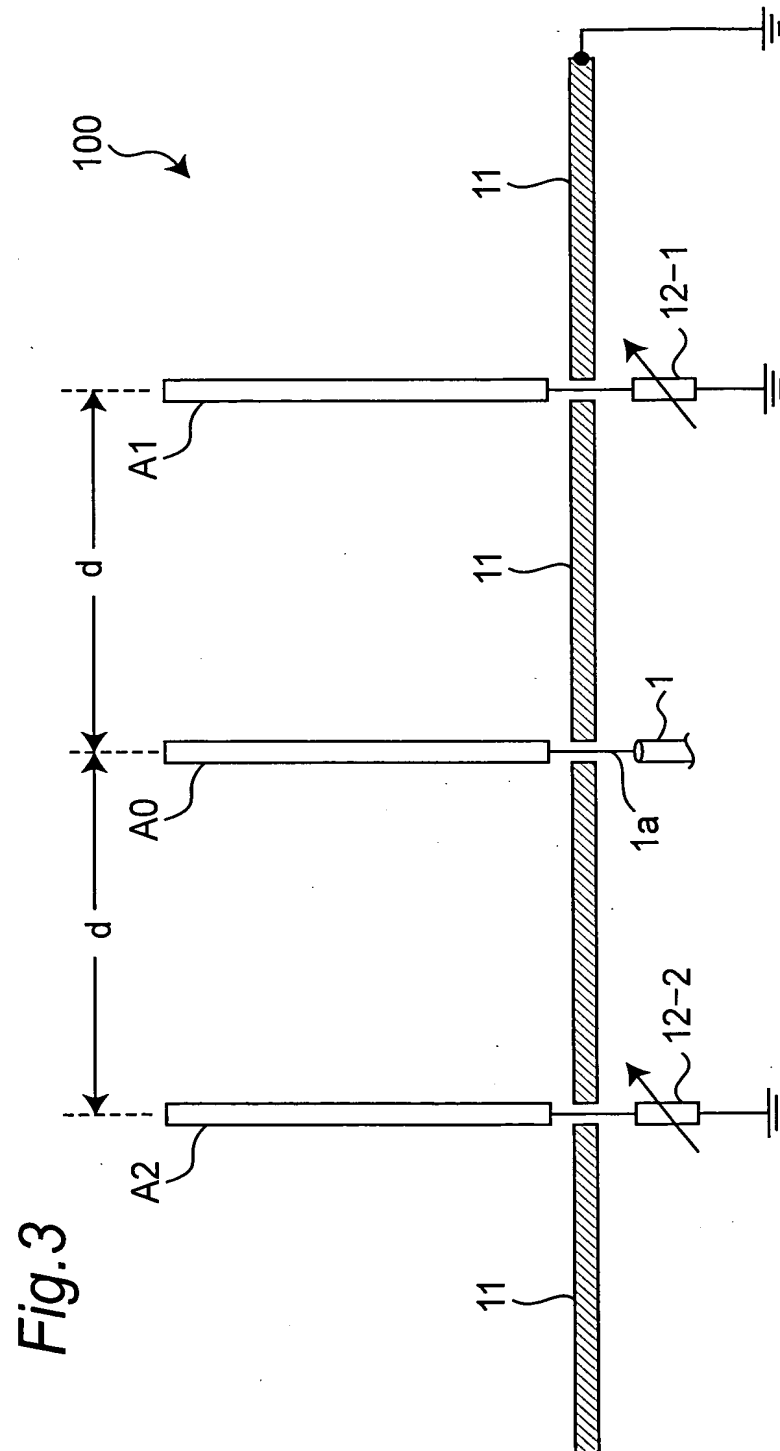
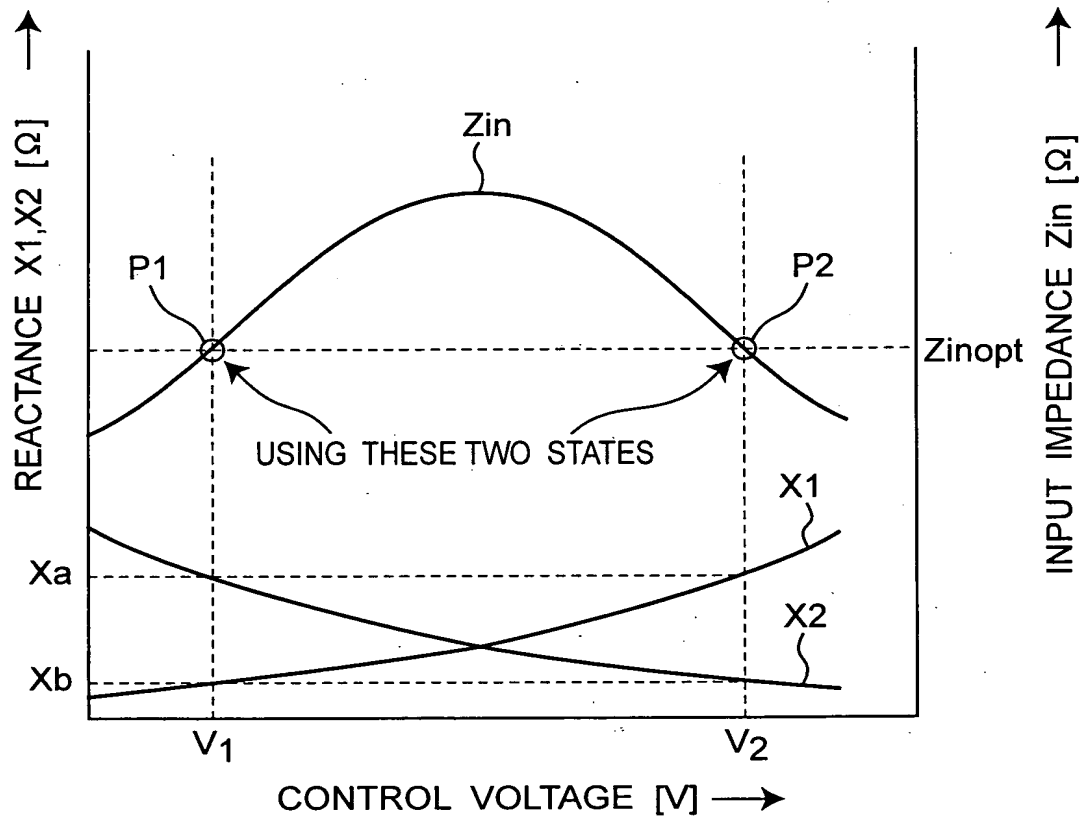


Fig. 4



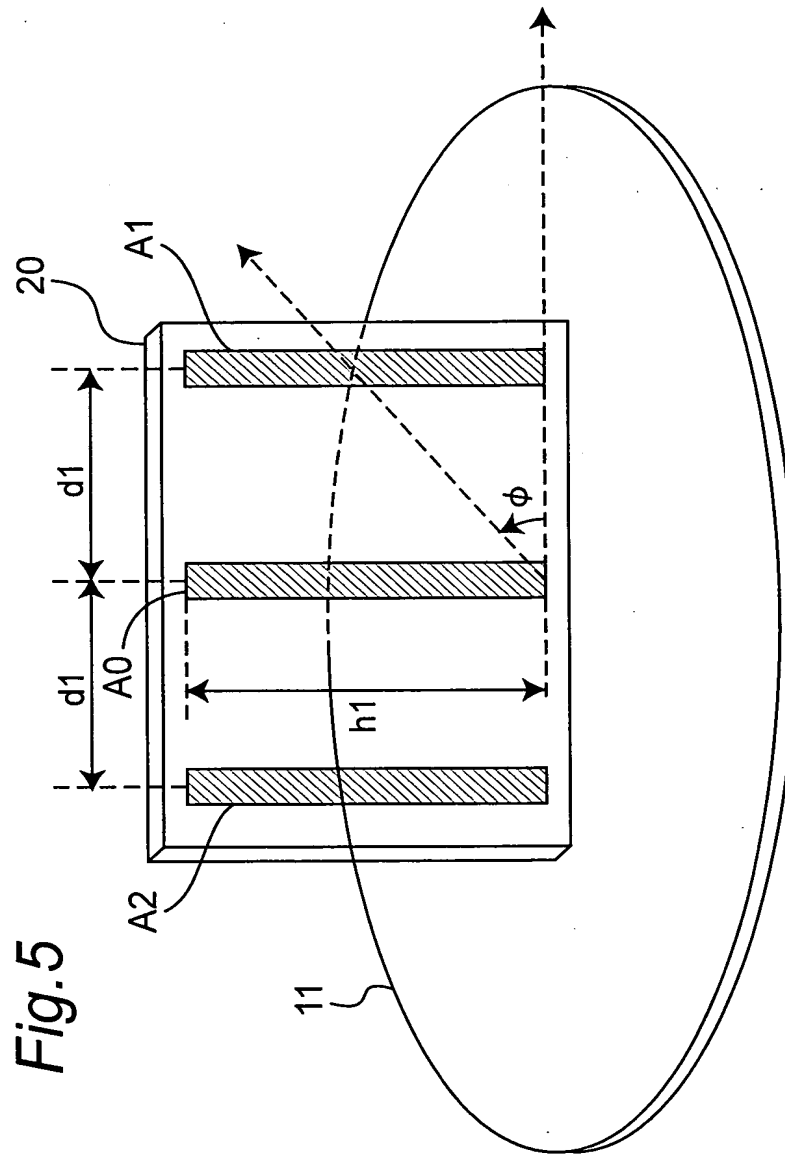


Fig.6

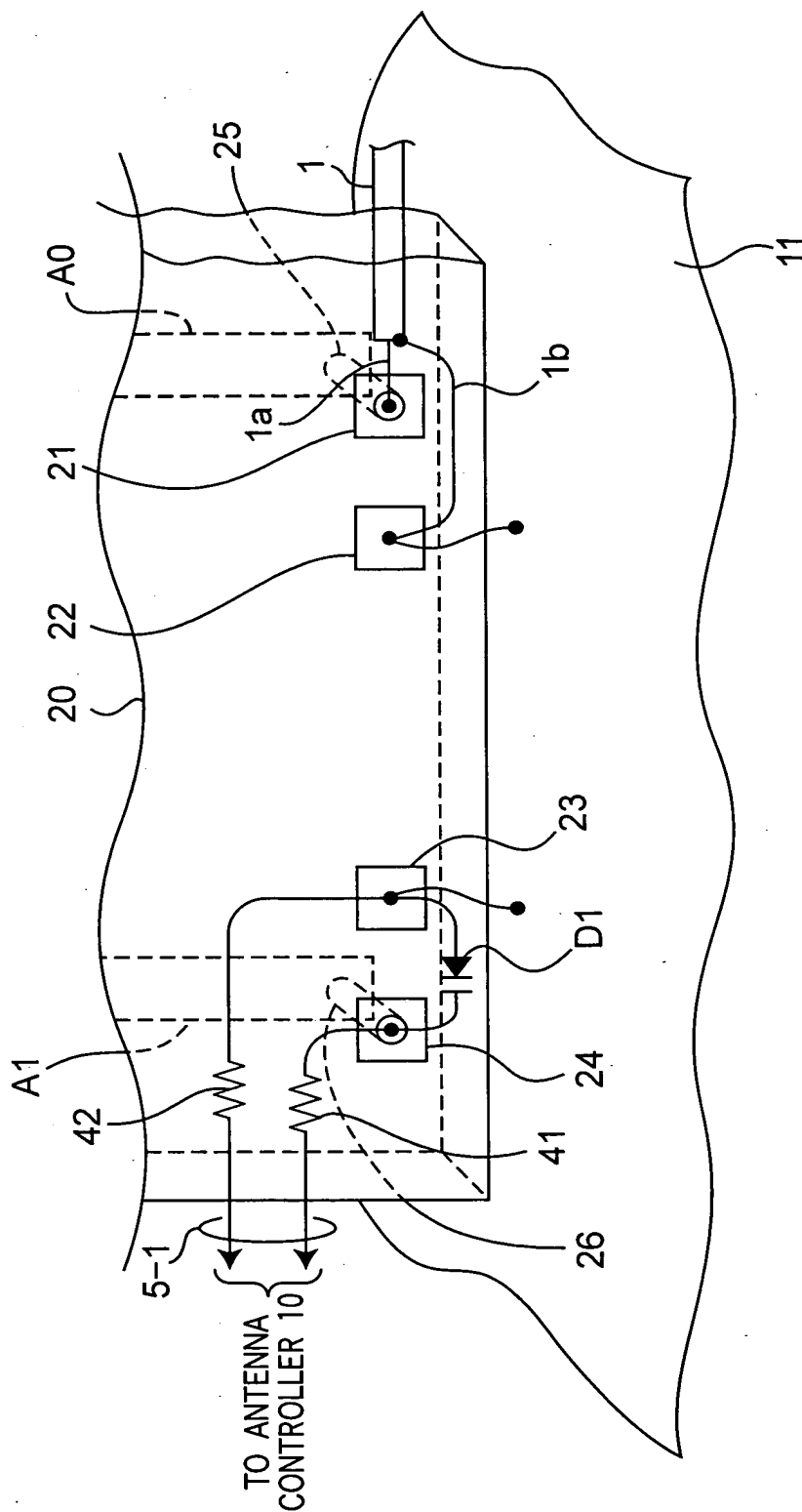


Fig. 7

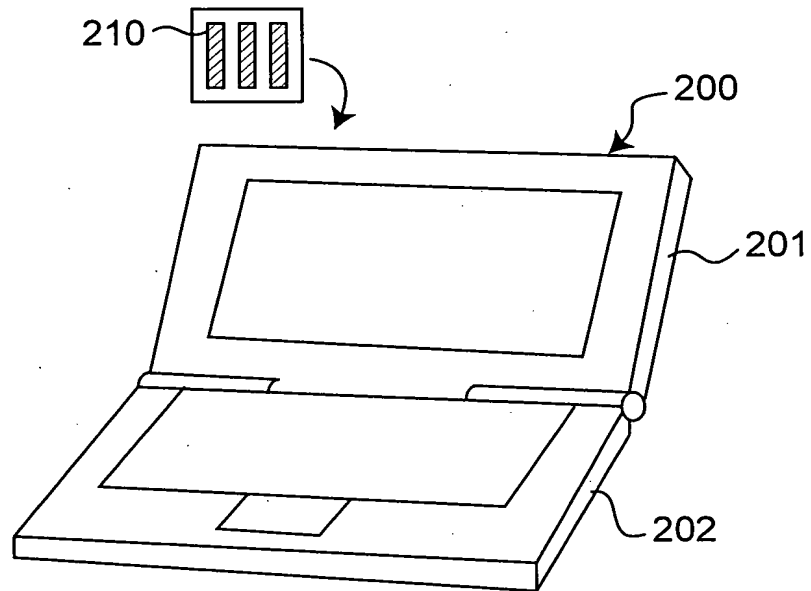


Fig. 8

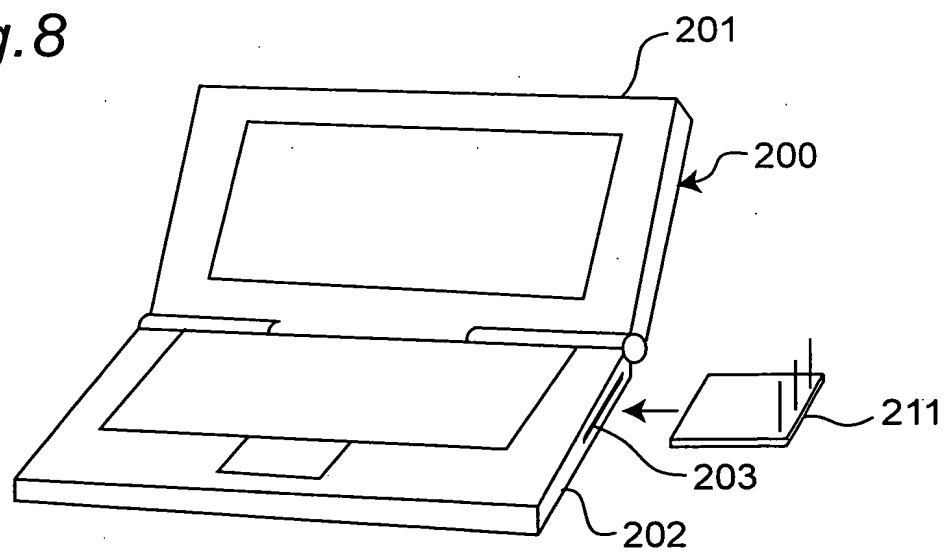
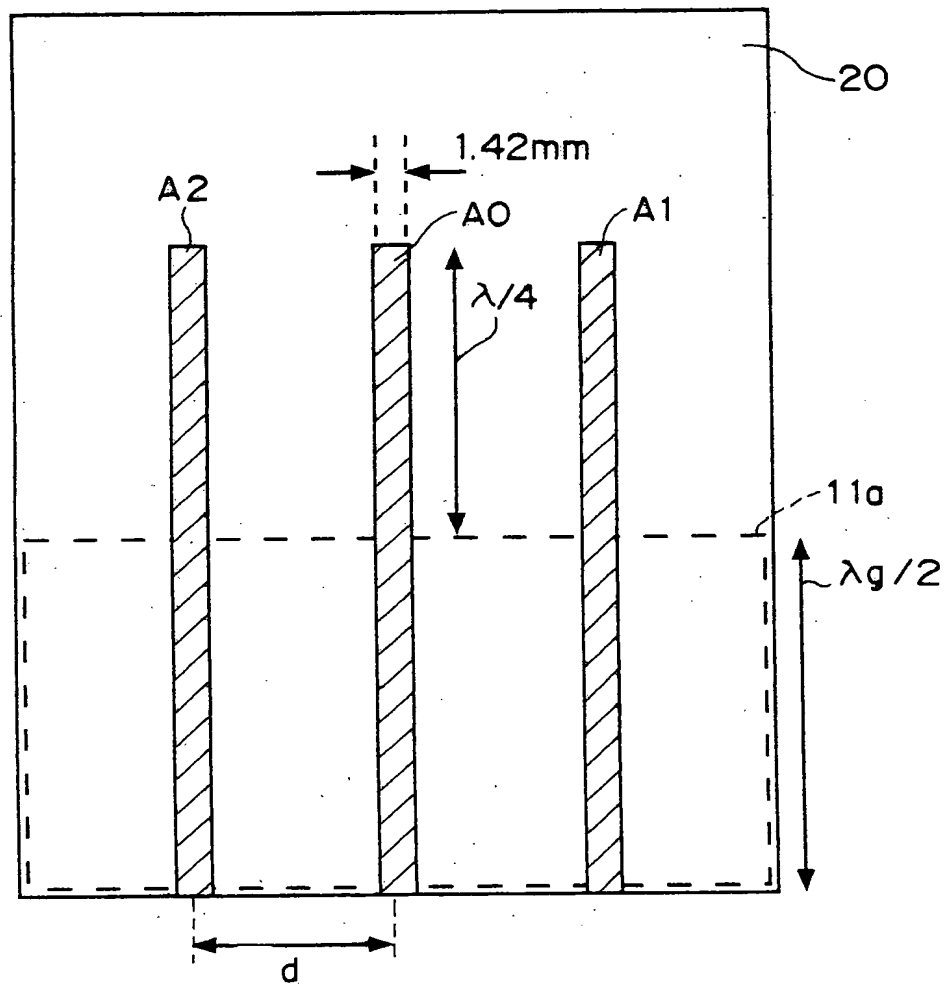


Fig. 9





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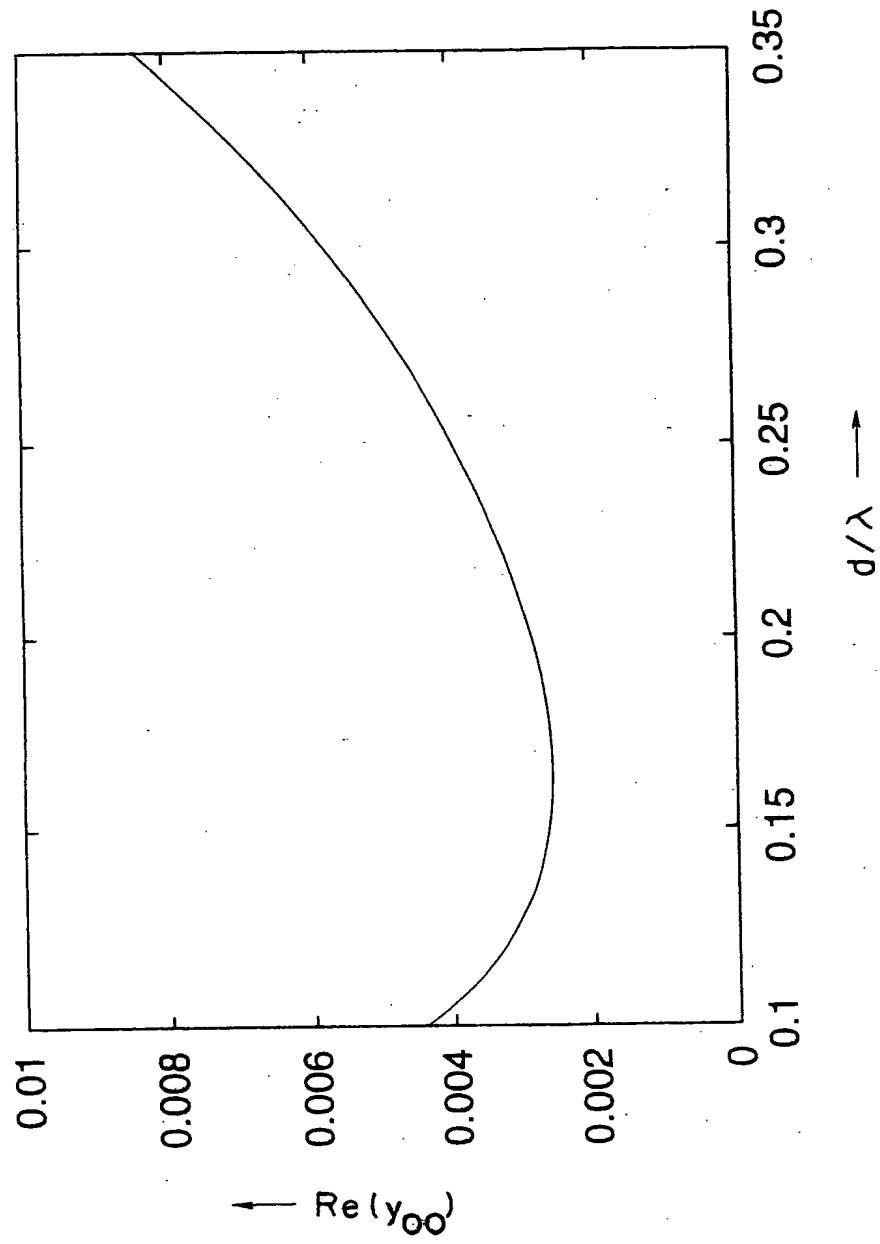


Fig.10

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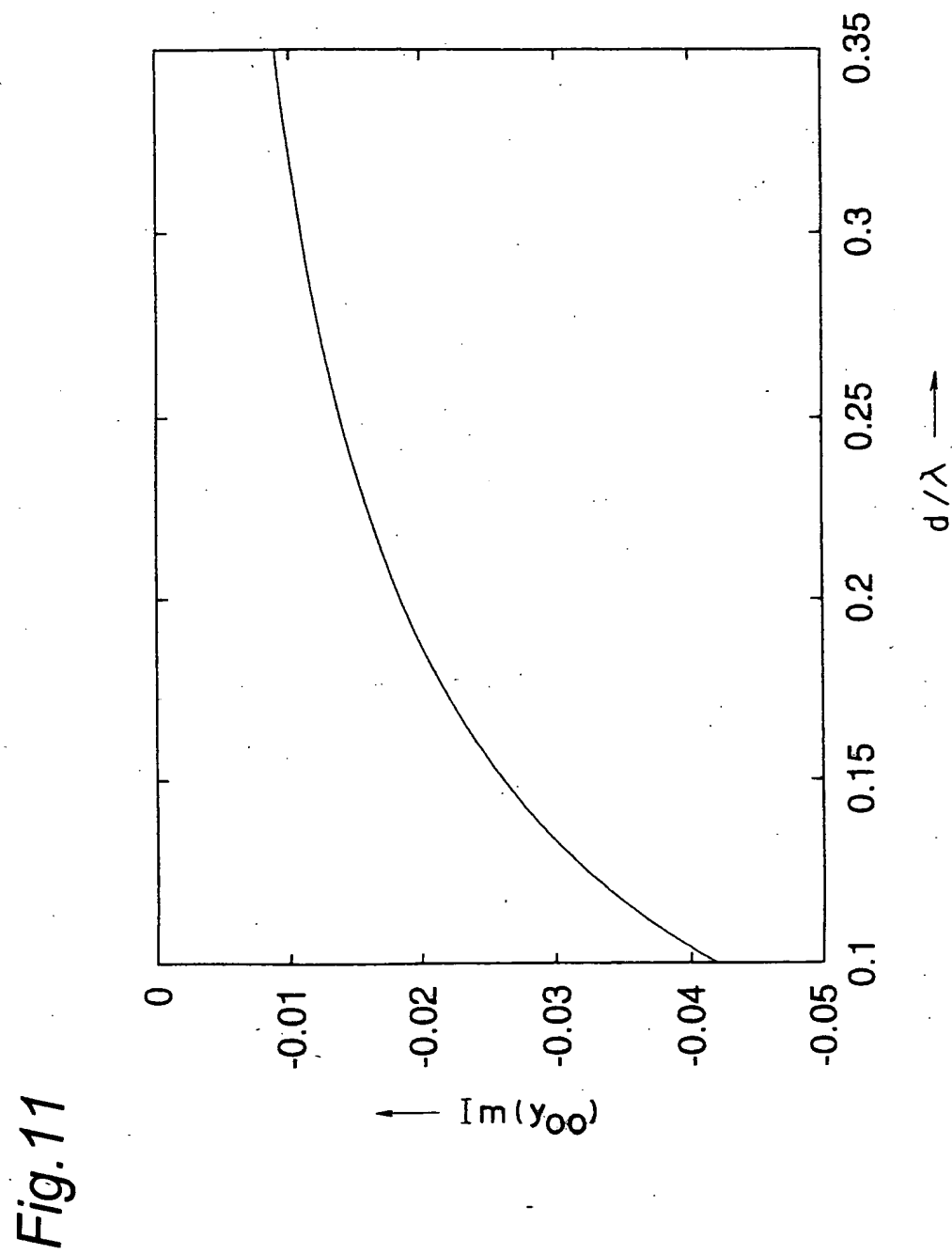
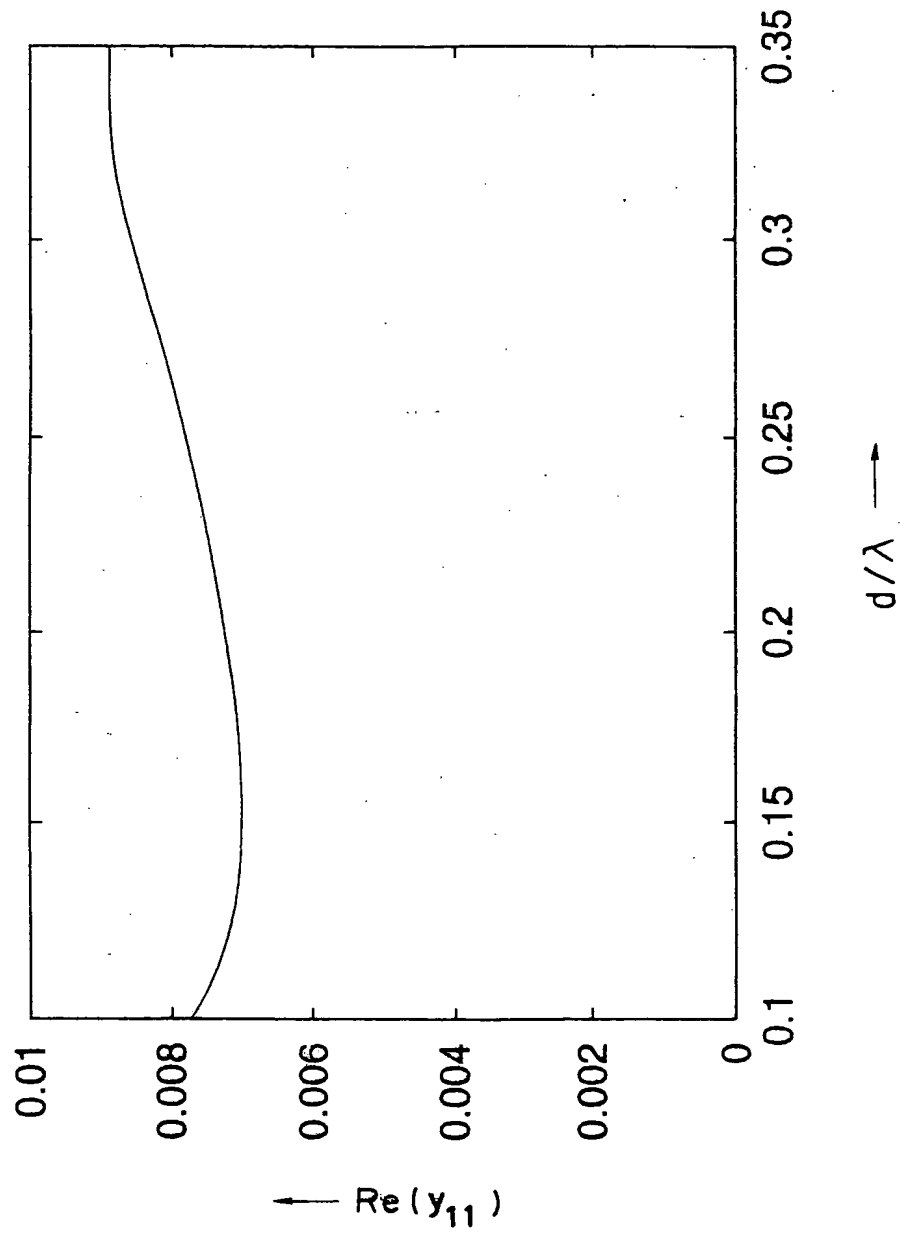


Fig.12



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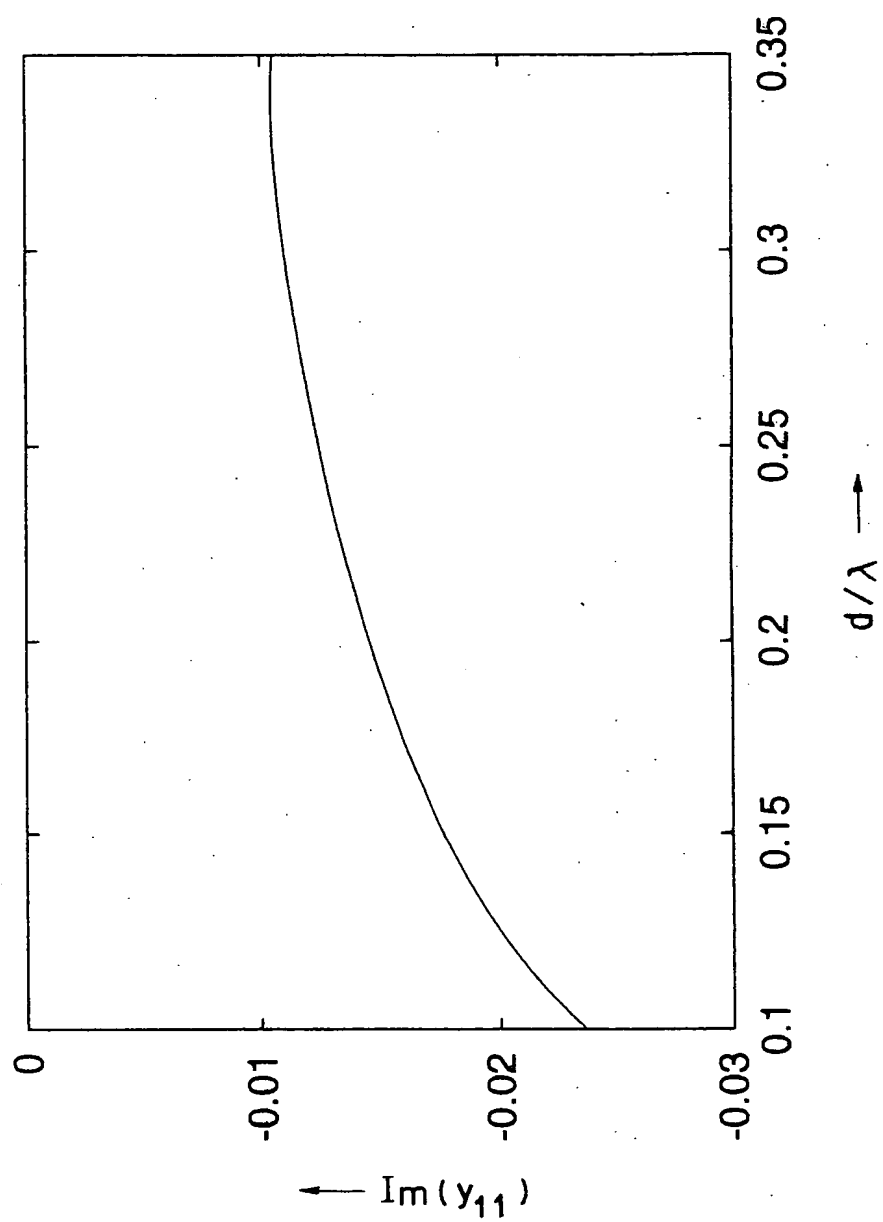
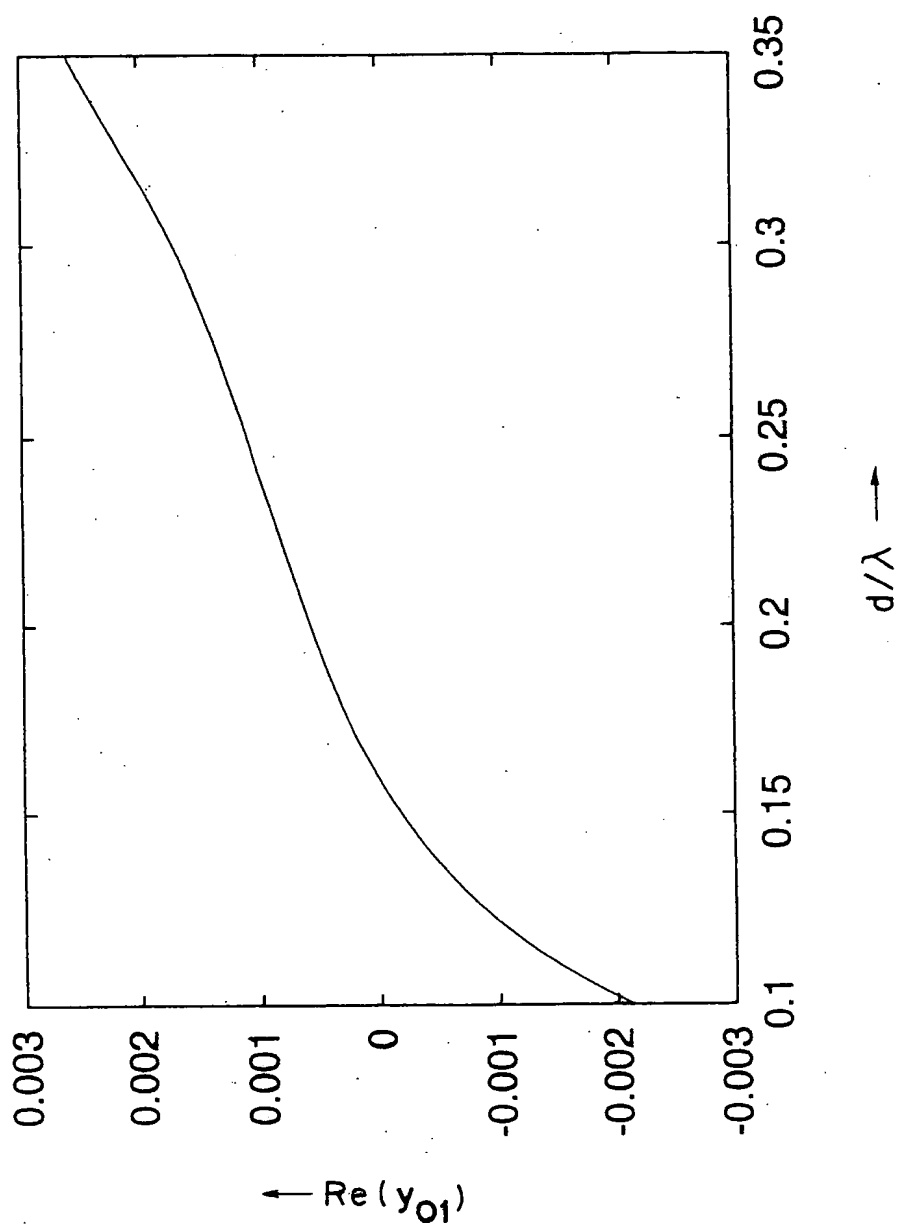


Fig.13

Fig. 14



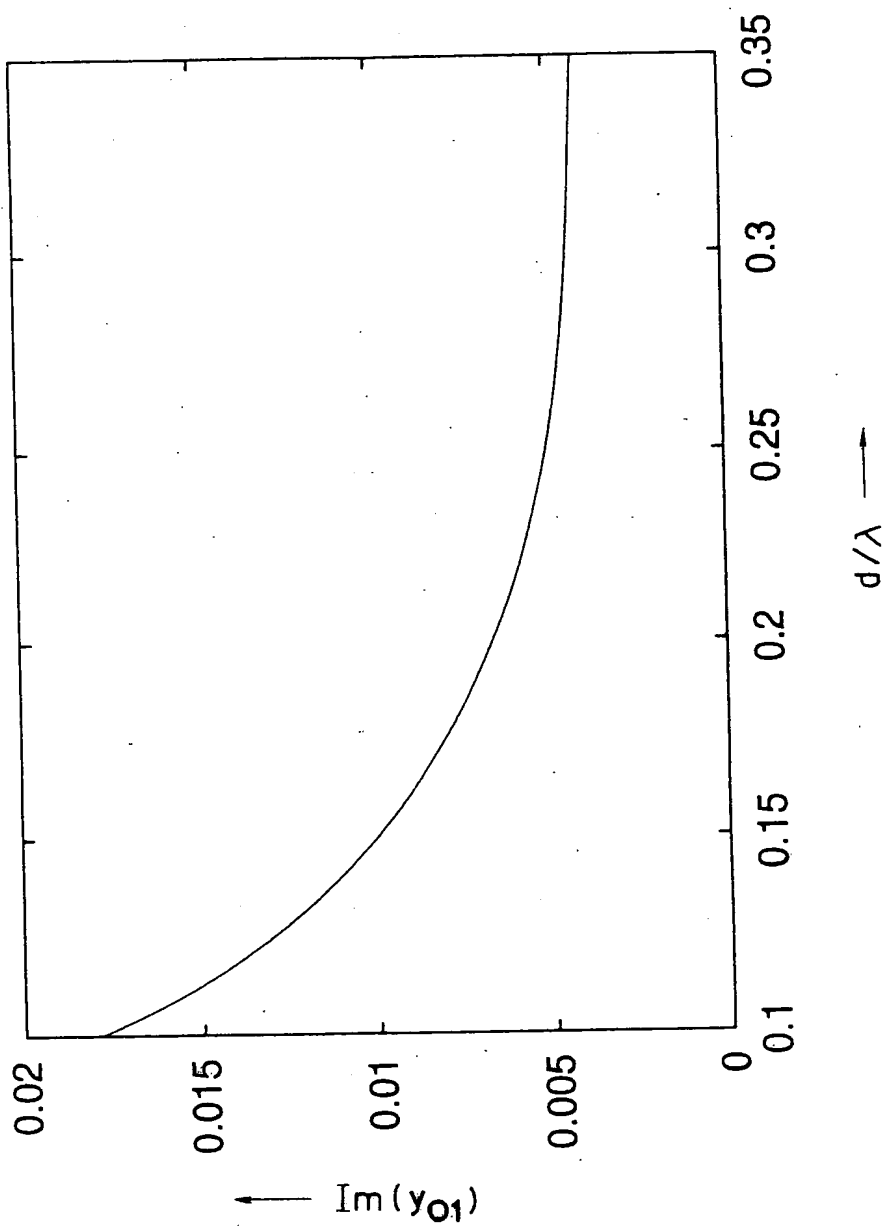
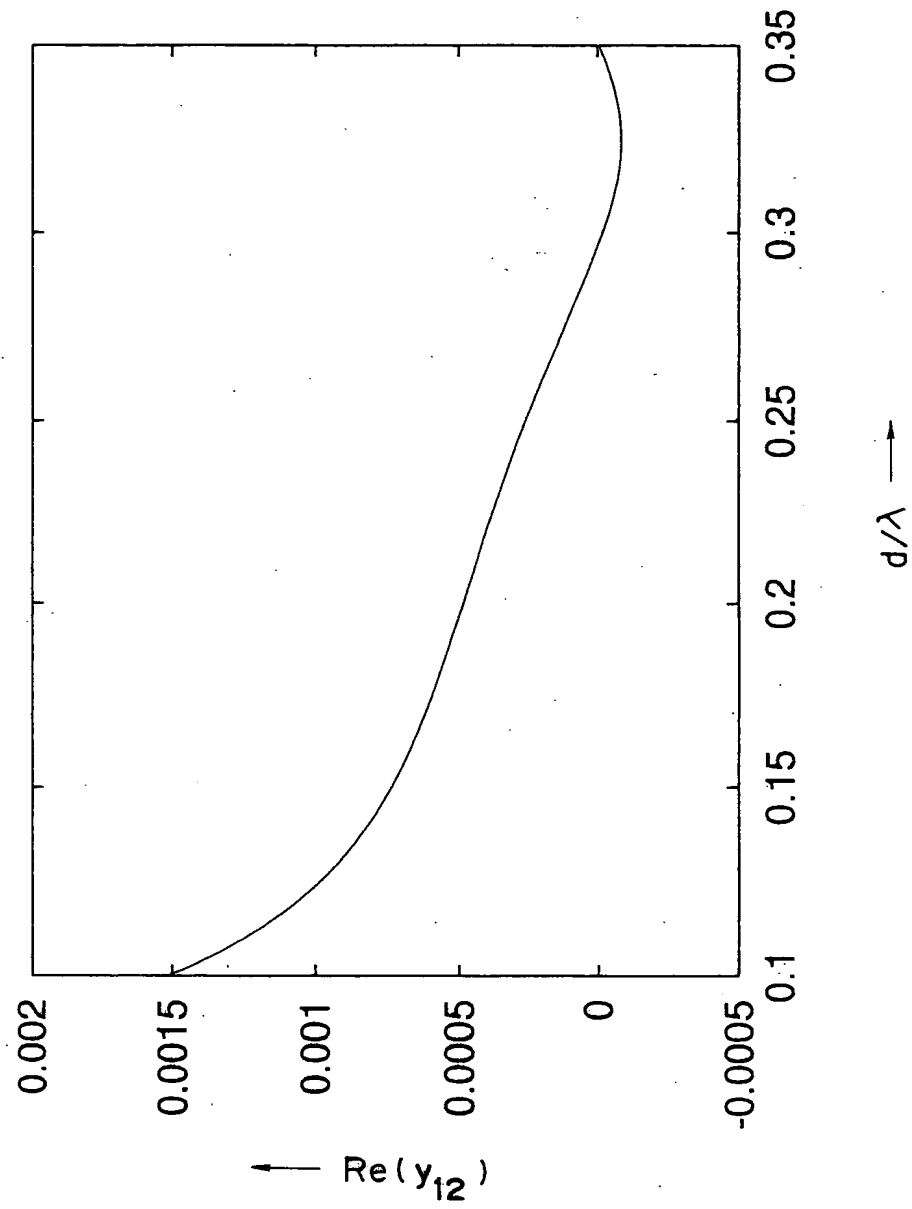


Fig.15

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Fig.16



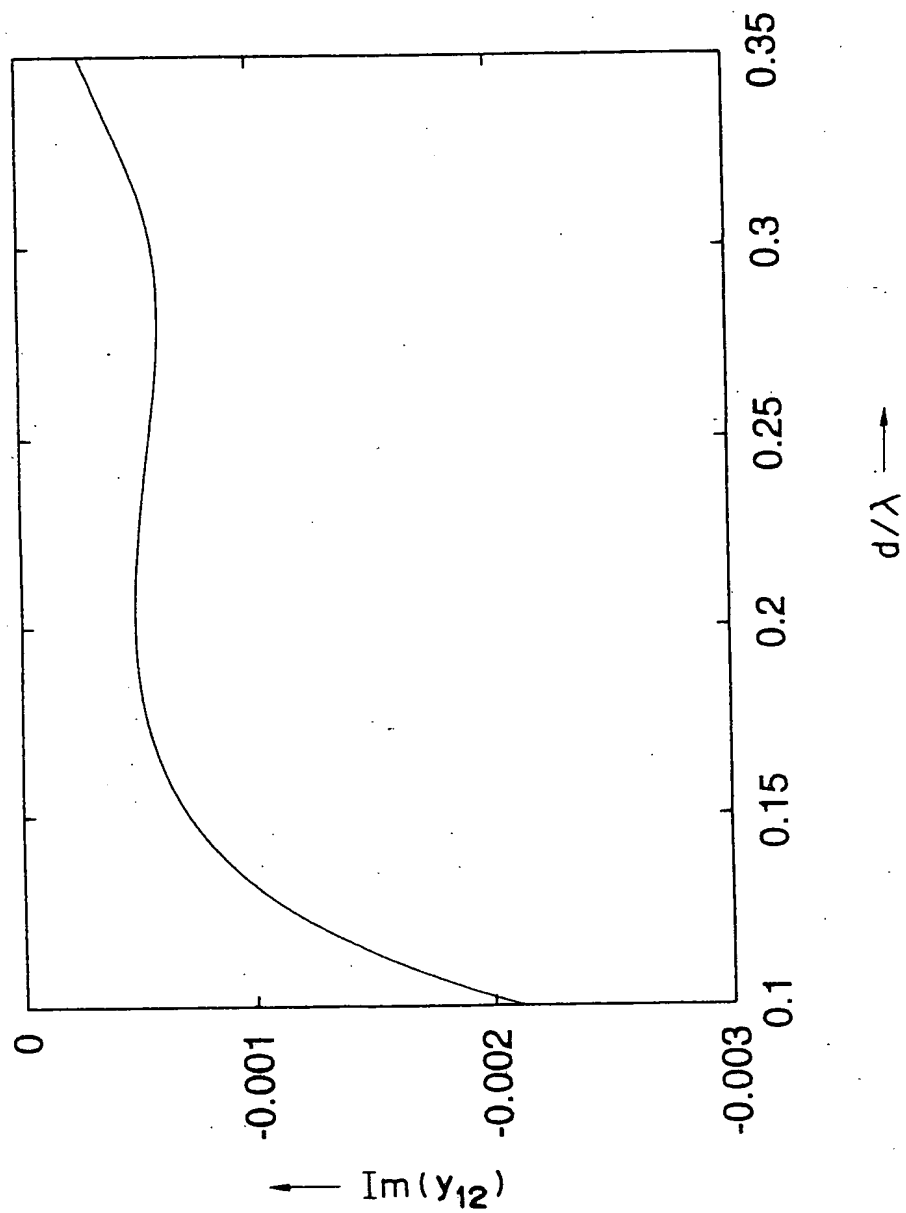
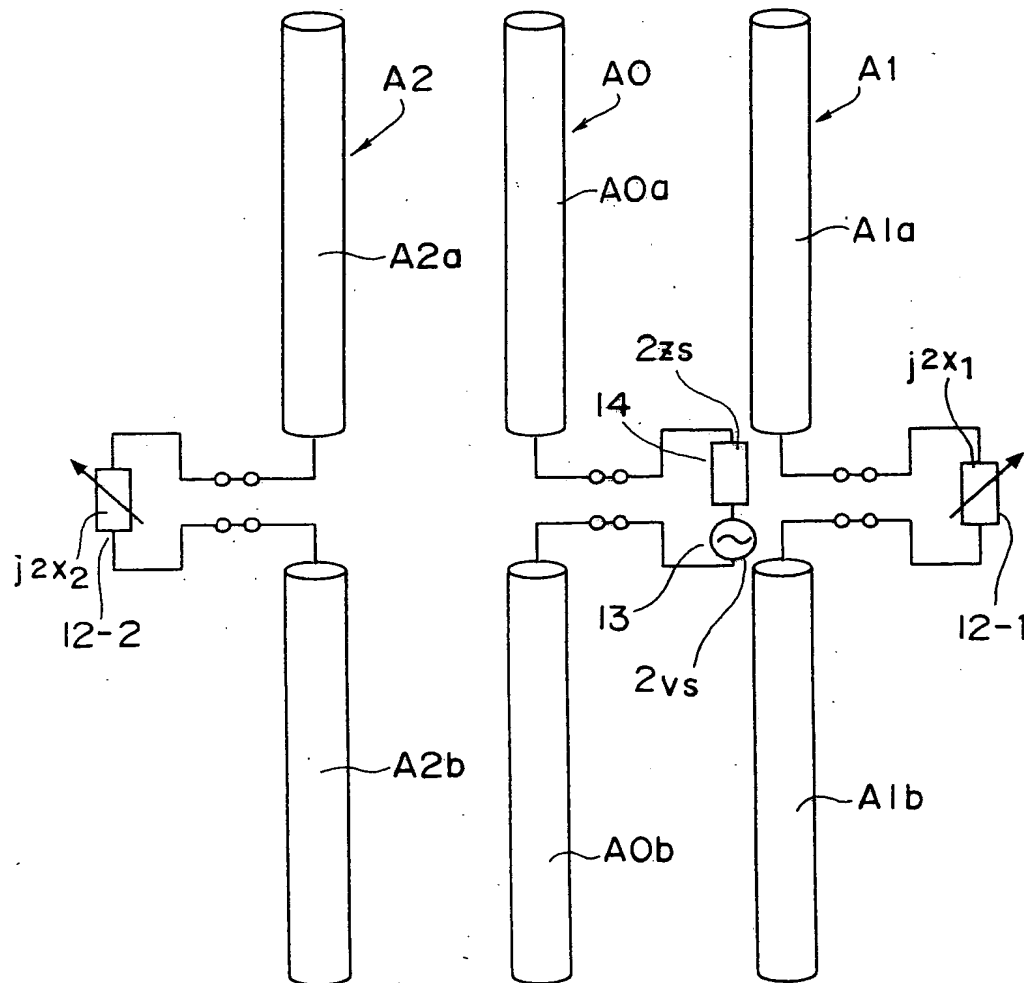
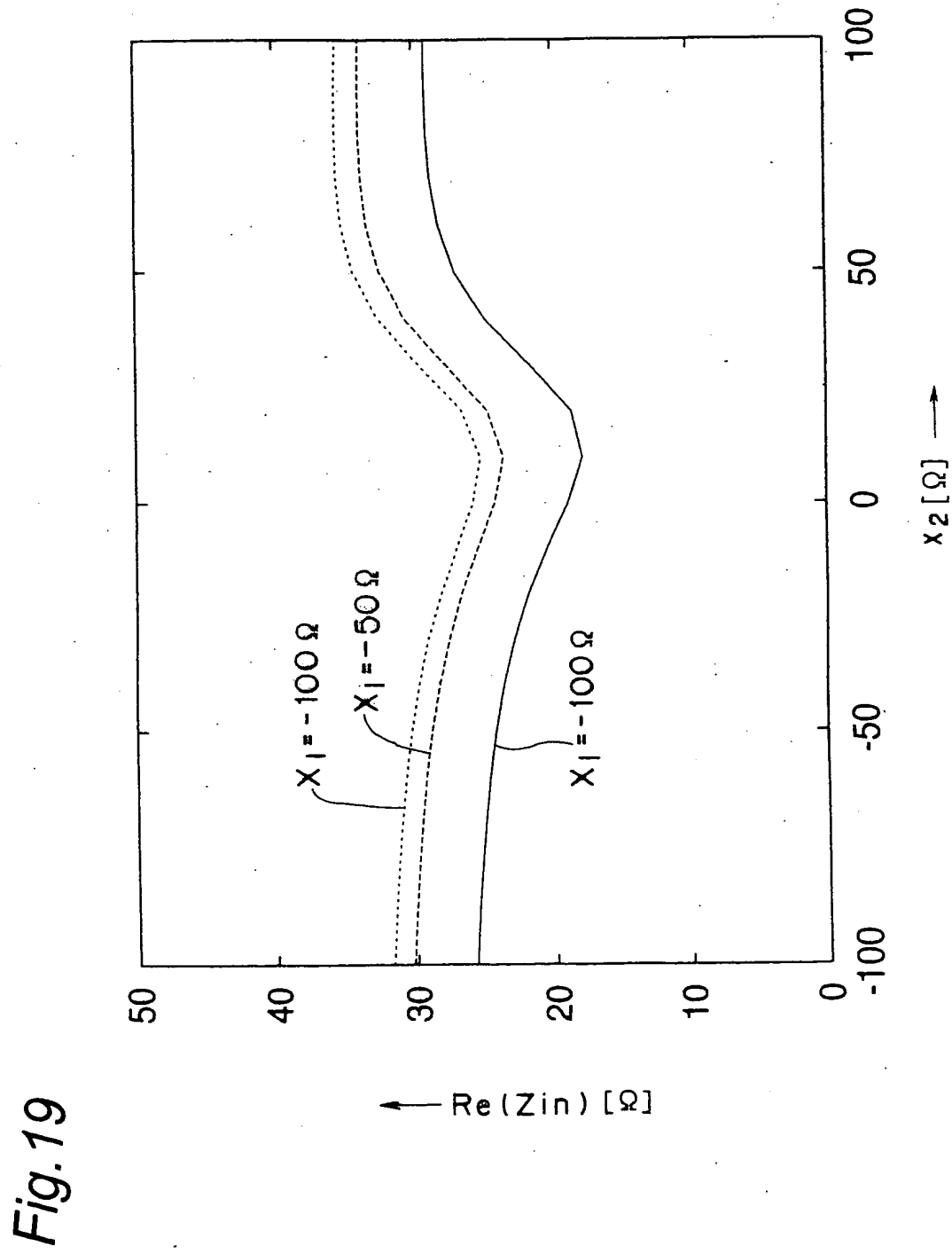


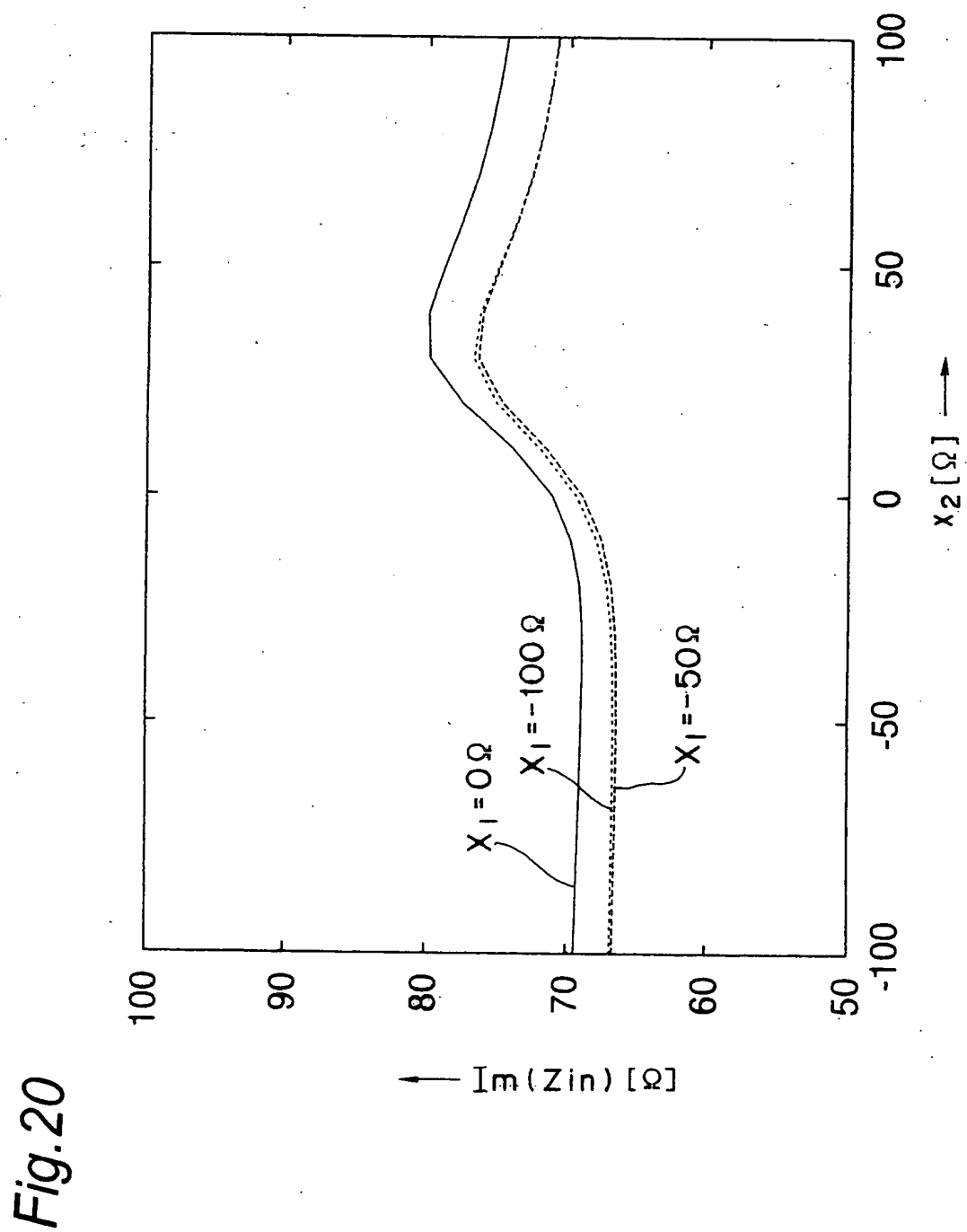
Fig.17



Fig. 18







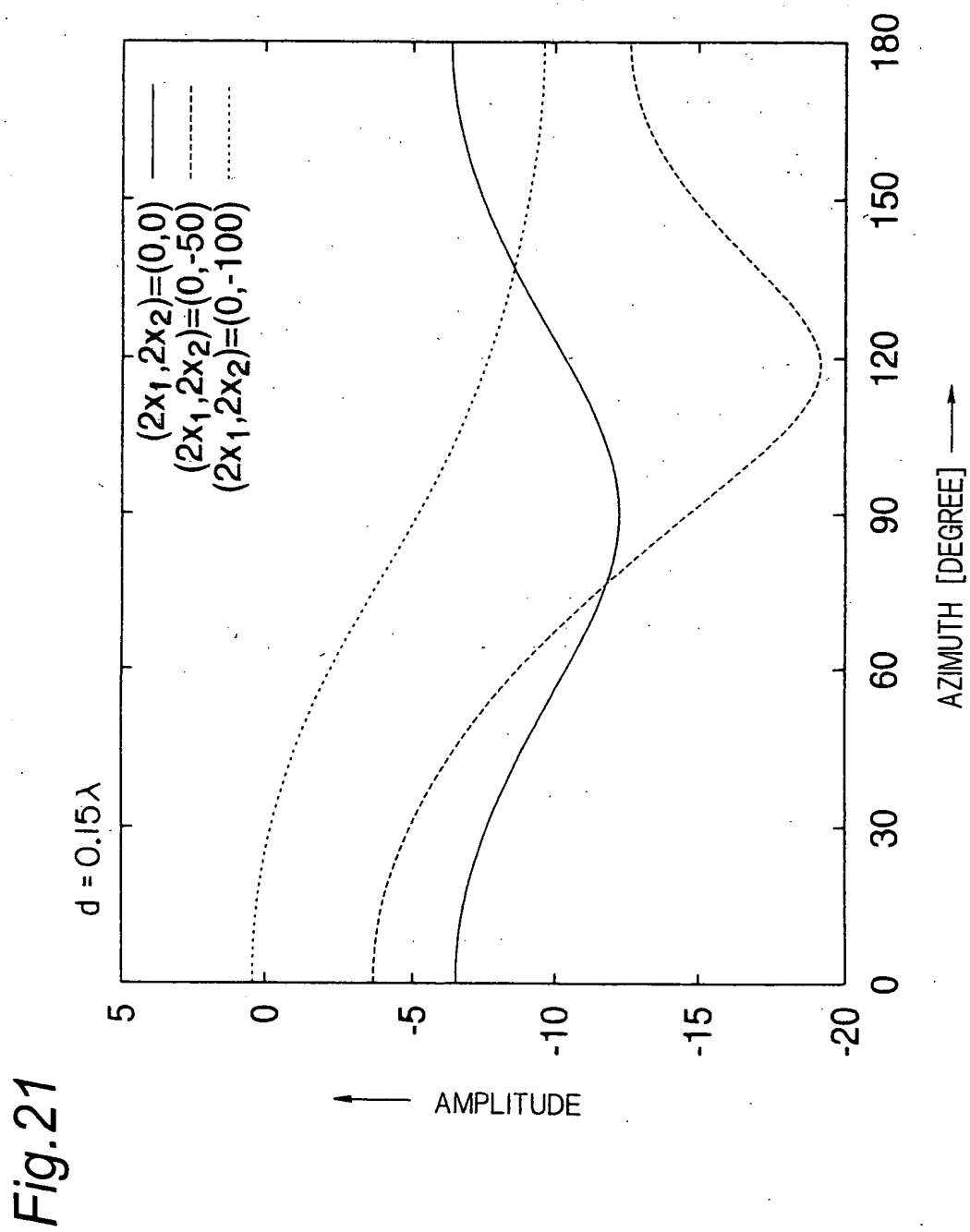
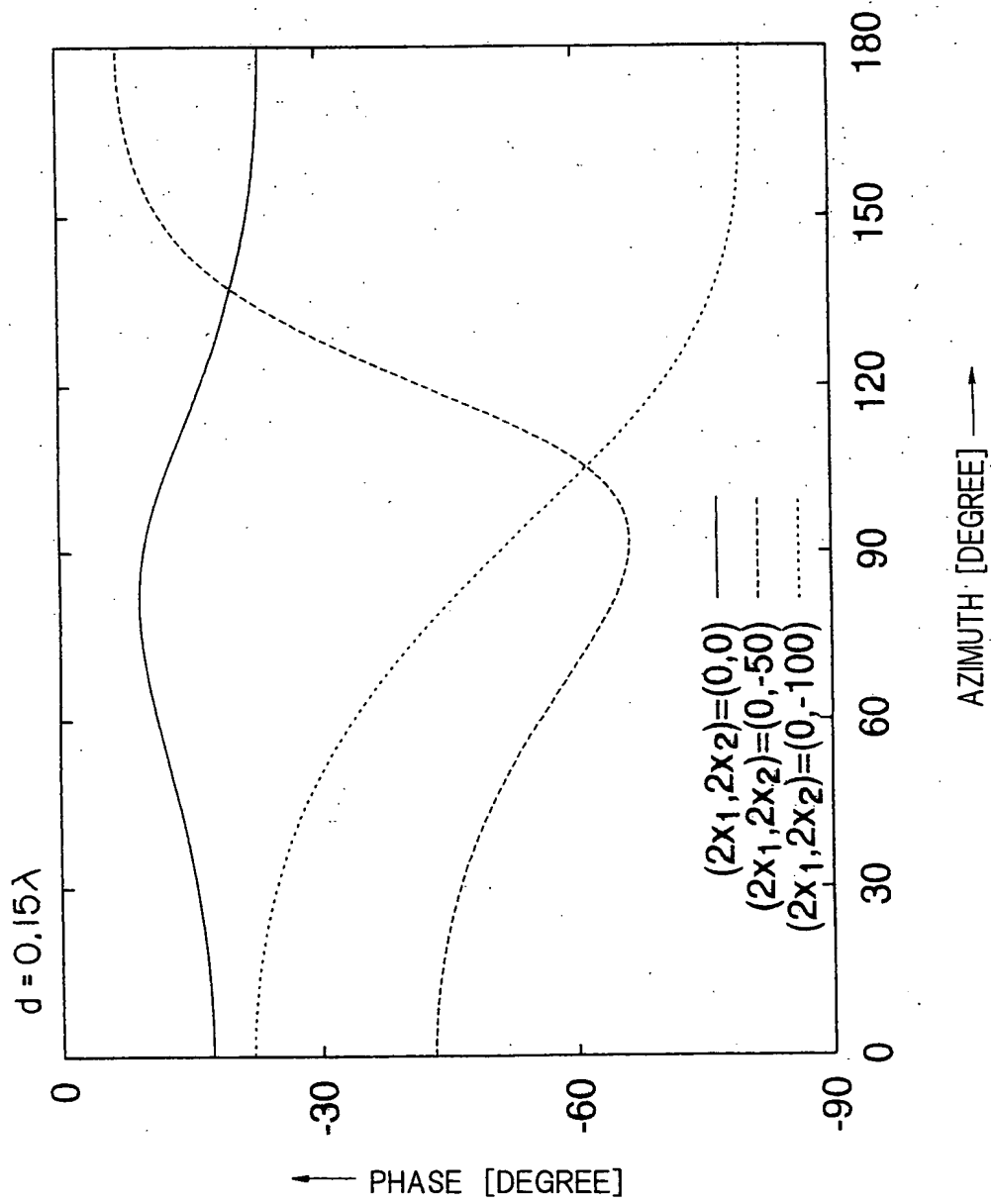


Fig. 22



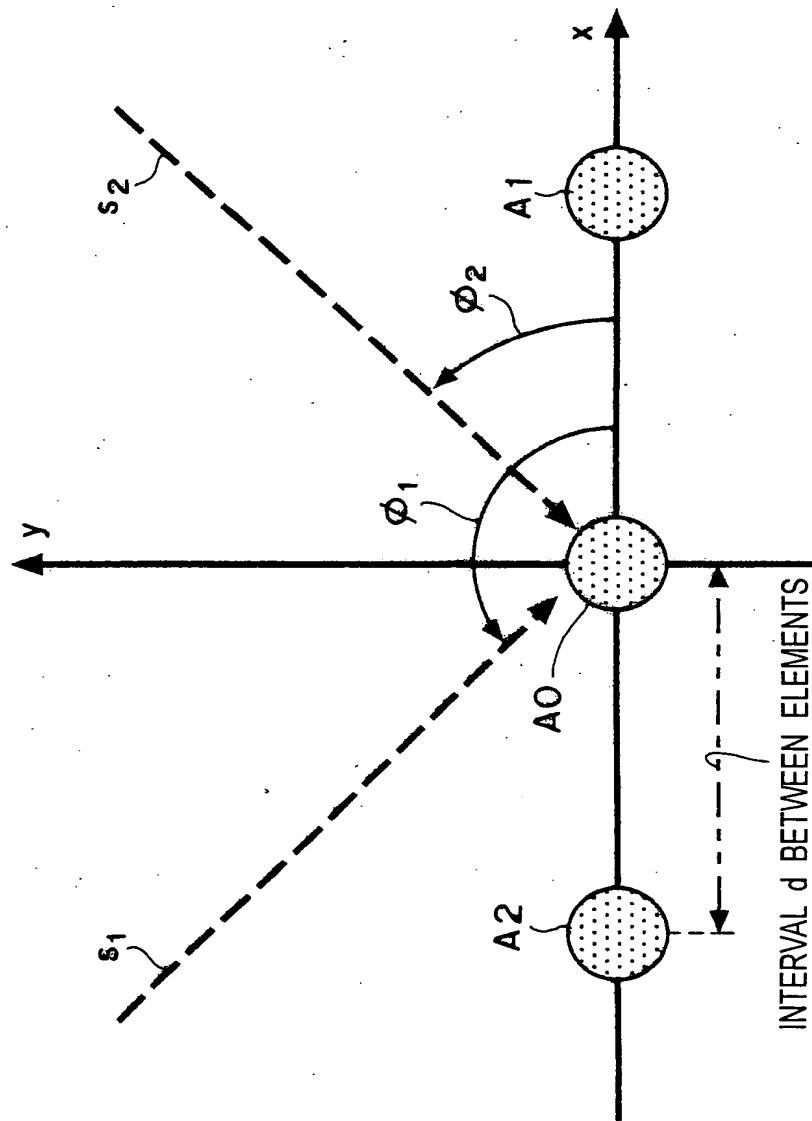


Fig. 23

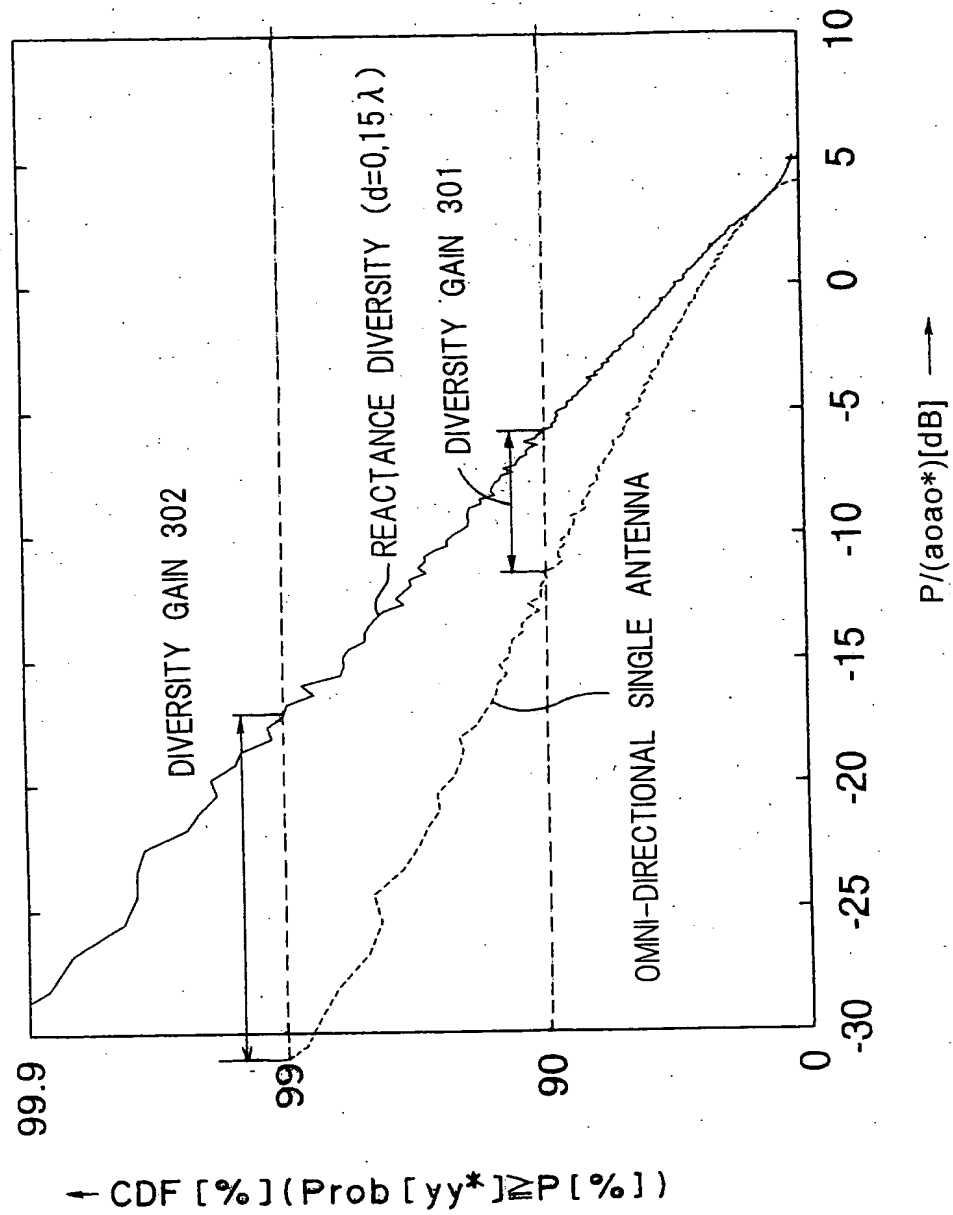


Fig.24

Fig.25

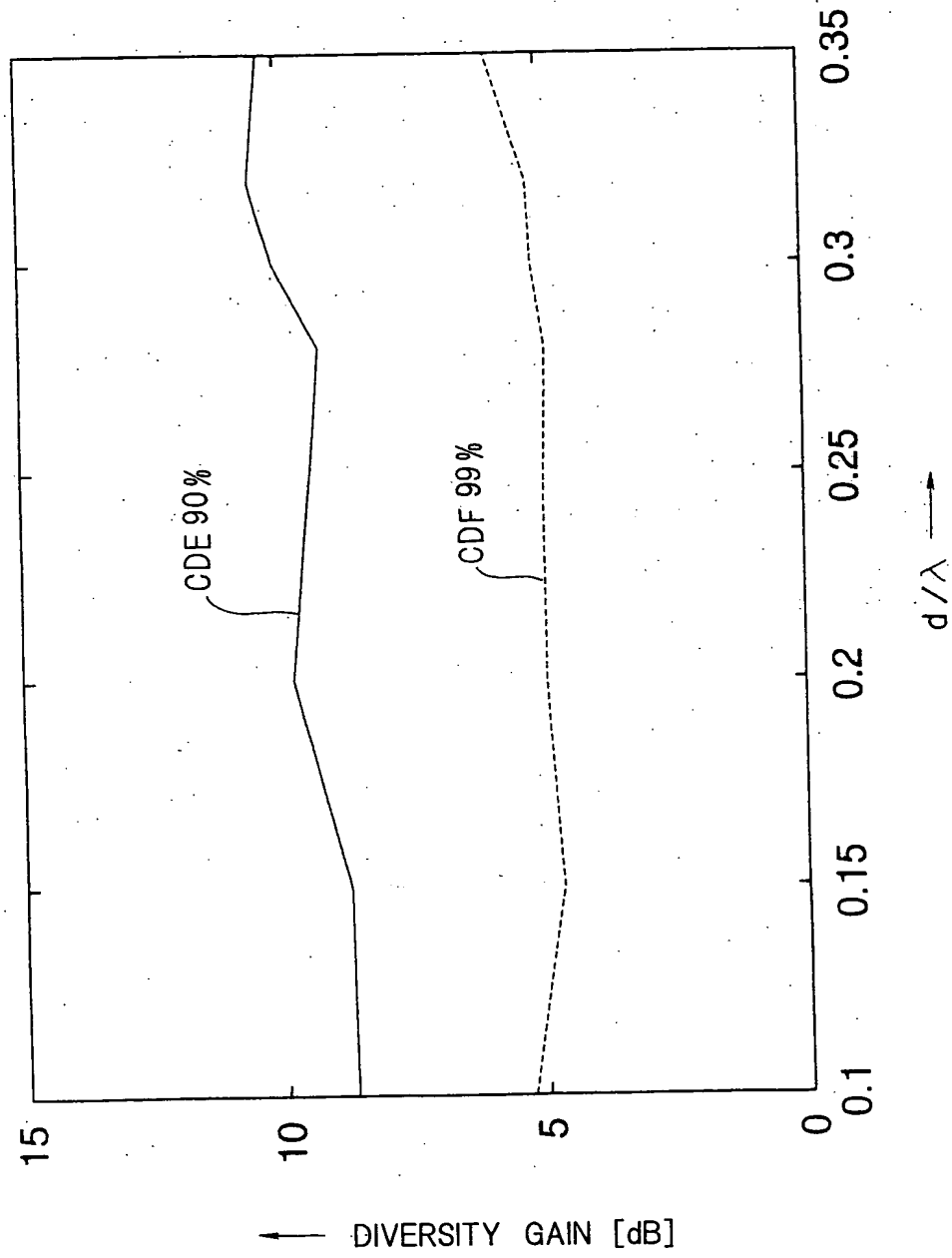




Fig.26

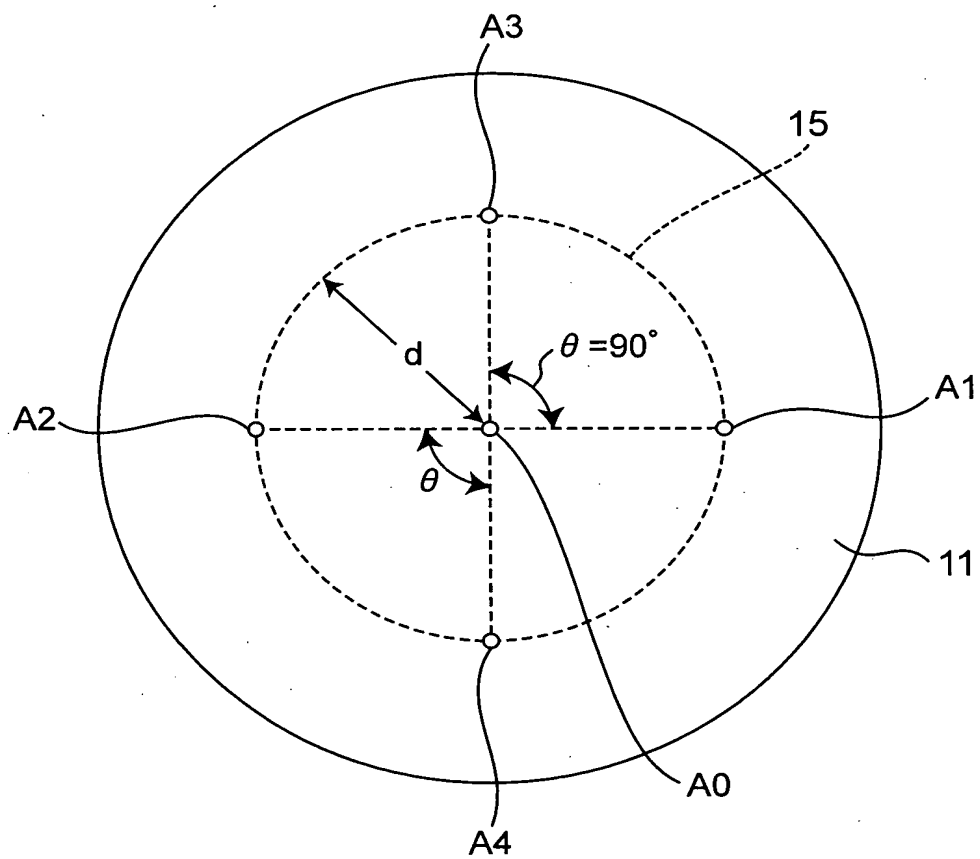


Diagram illustrating a circular antenna array layout. The layout consists of concentric circles and radial lines. The outermost circle is labeled 11. Inside it is a dashed circle labeled 15. A central circle is labeled 12. The radial distance from the center to the dashed circle 15 is labeled  $d$ . Four points are marked on the dashed circle 15, labeled A0, A1, A2, and A3. The angular separation between these points is indicated as  $120^\circ$  between A0 and A1, A1 and A2, and A2 and A3. A dashed line connects the center to point A1.

Fig. 20 is a schematic diagram of a circular structure. It features a large outer circle (11) and a smaller inner dashed circle (15). A central square contains a small circle. Four radial lines (A0, A1, A2, A3) extend from the center to the outer circle. A dashed line (A4) also extends from the center to the outer circle. The distance from the center to the outer circle is labeled 'd'. The angle between the radial lines A0 and A1 is labeled 90°. The angle between the radial lines A0 and A3 is labeled 90°.

Fig.29

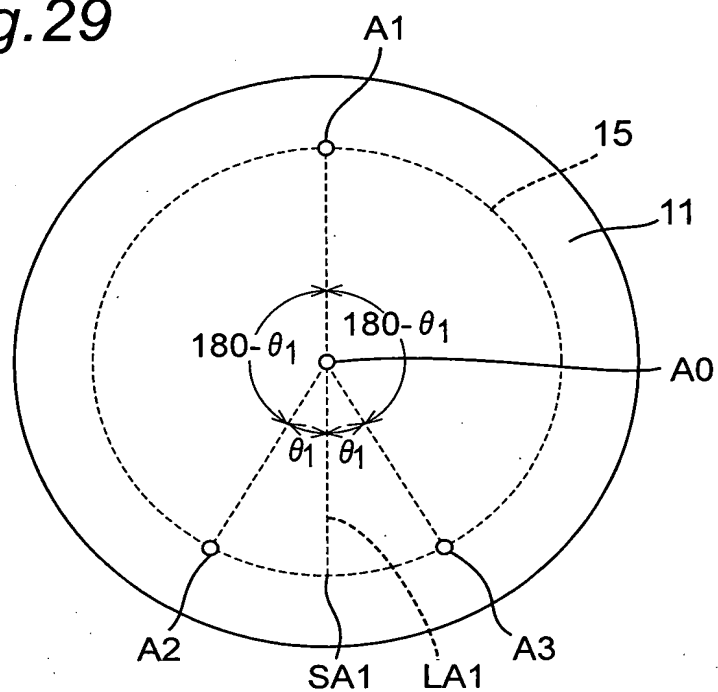


Fig.30

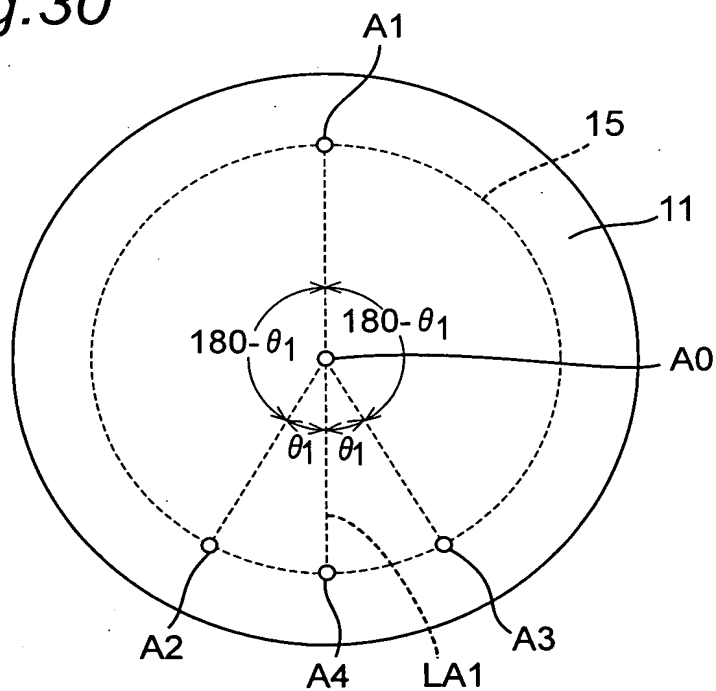


Fig.31

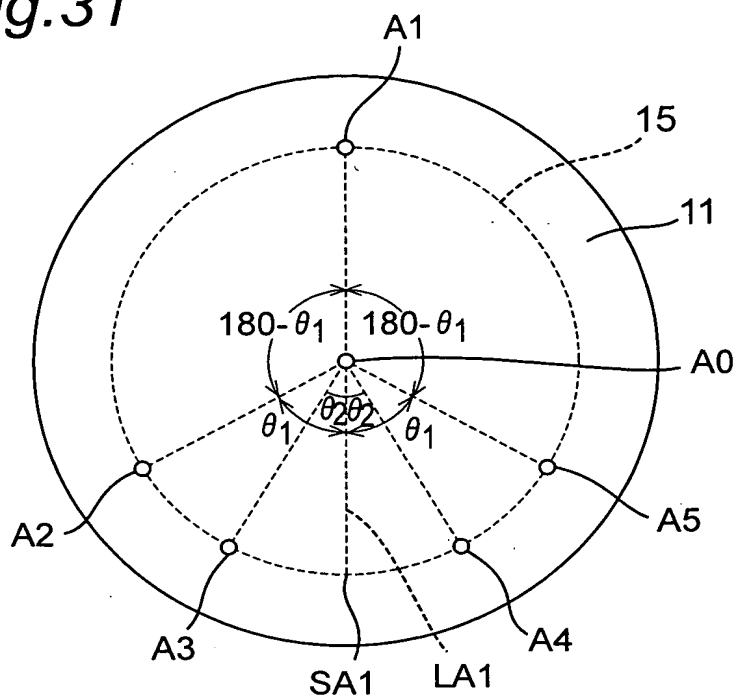
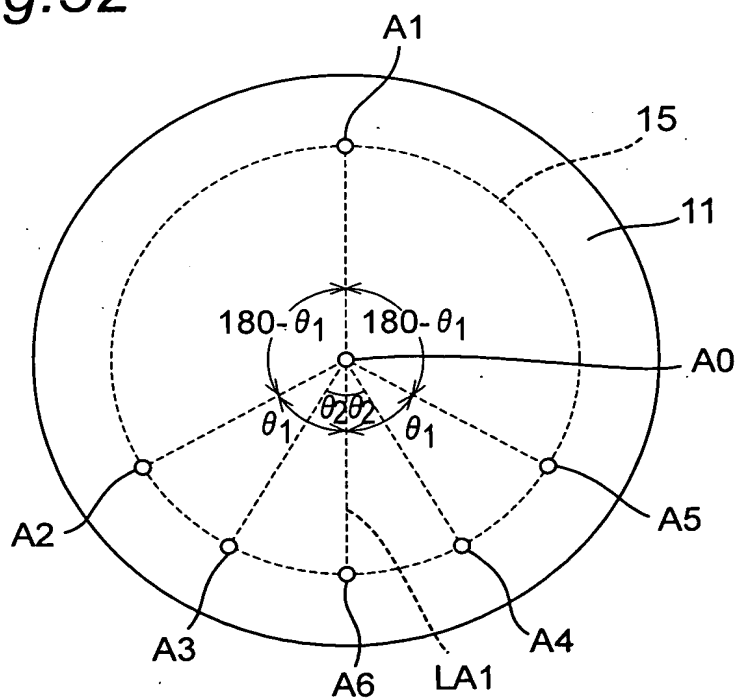


Fig.32



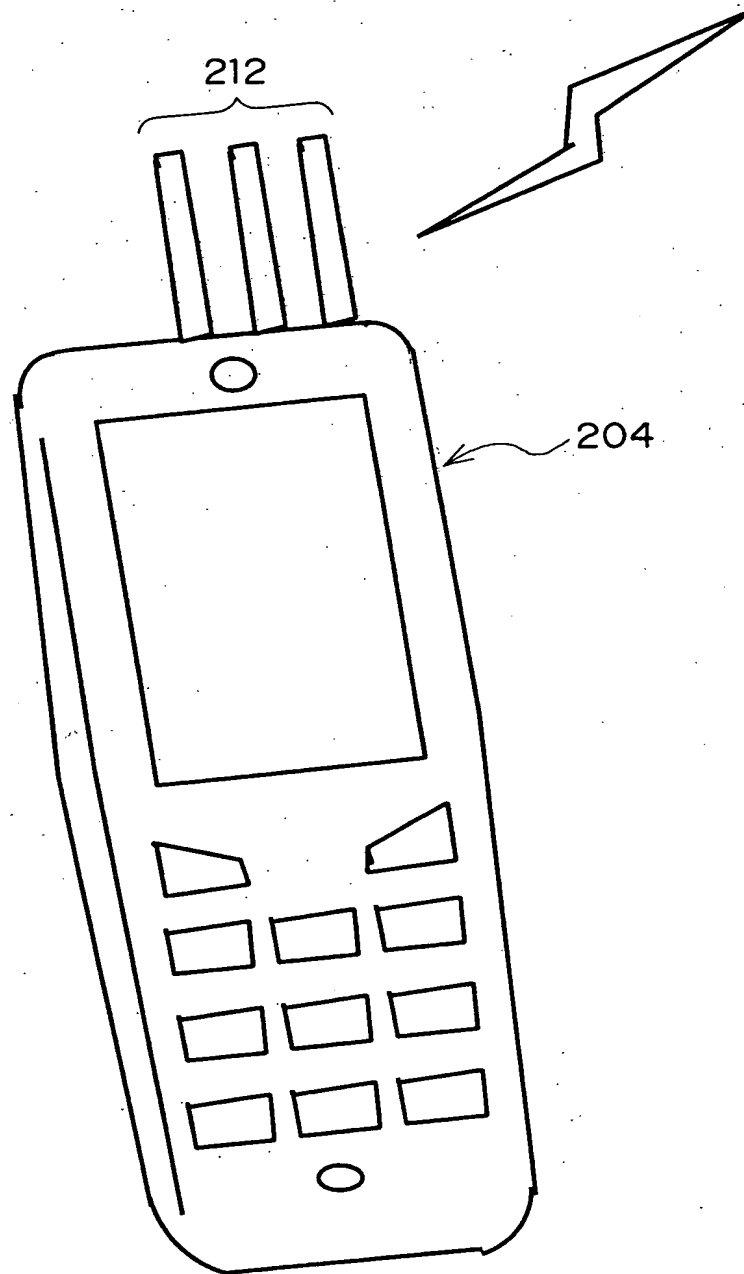
*Fig.33*

Fig. 34

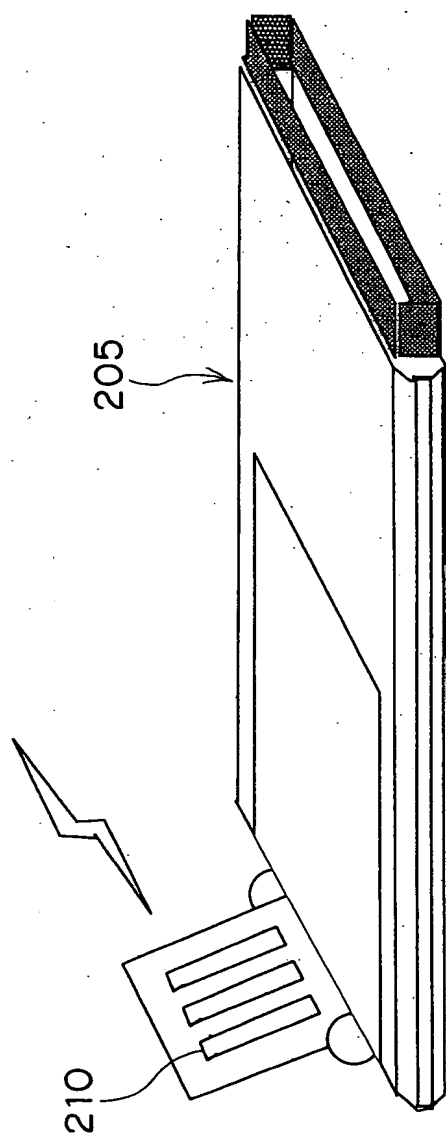
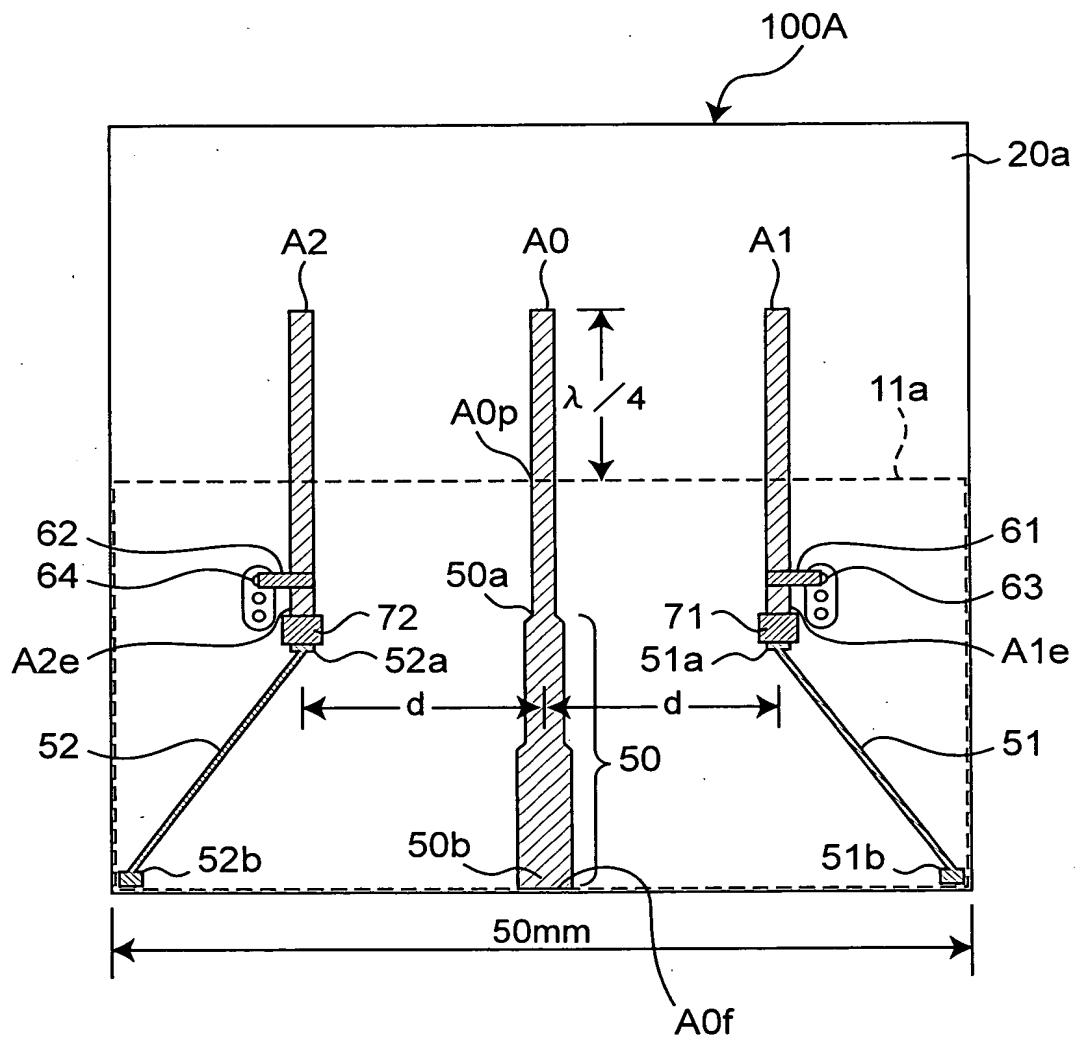


Fig.35



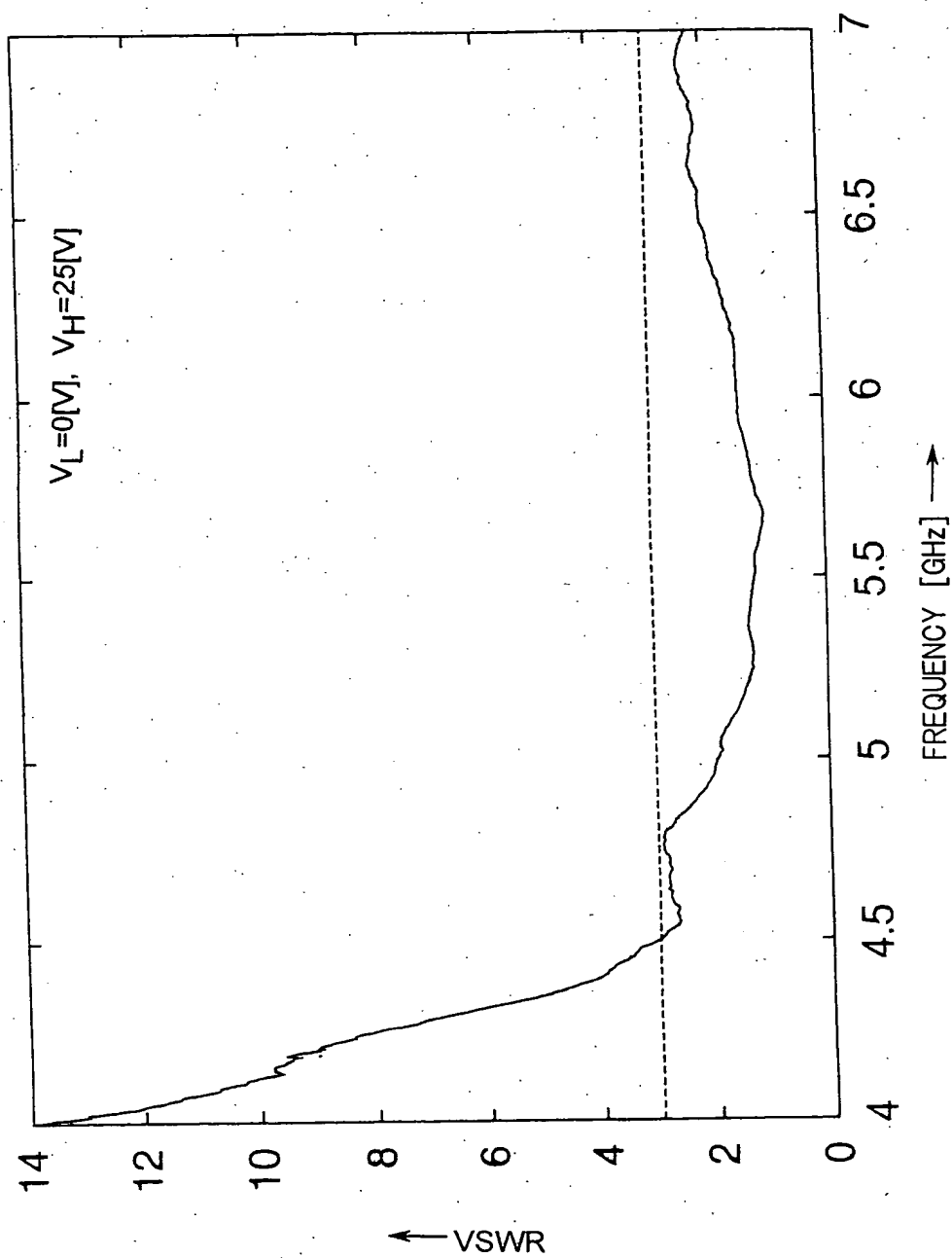
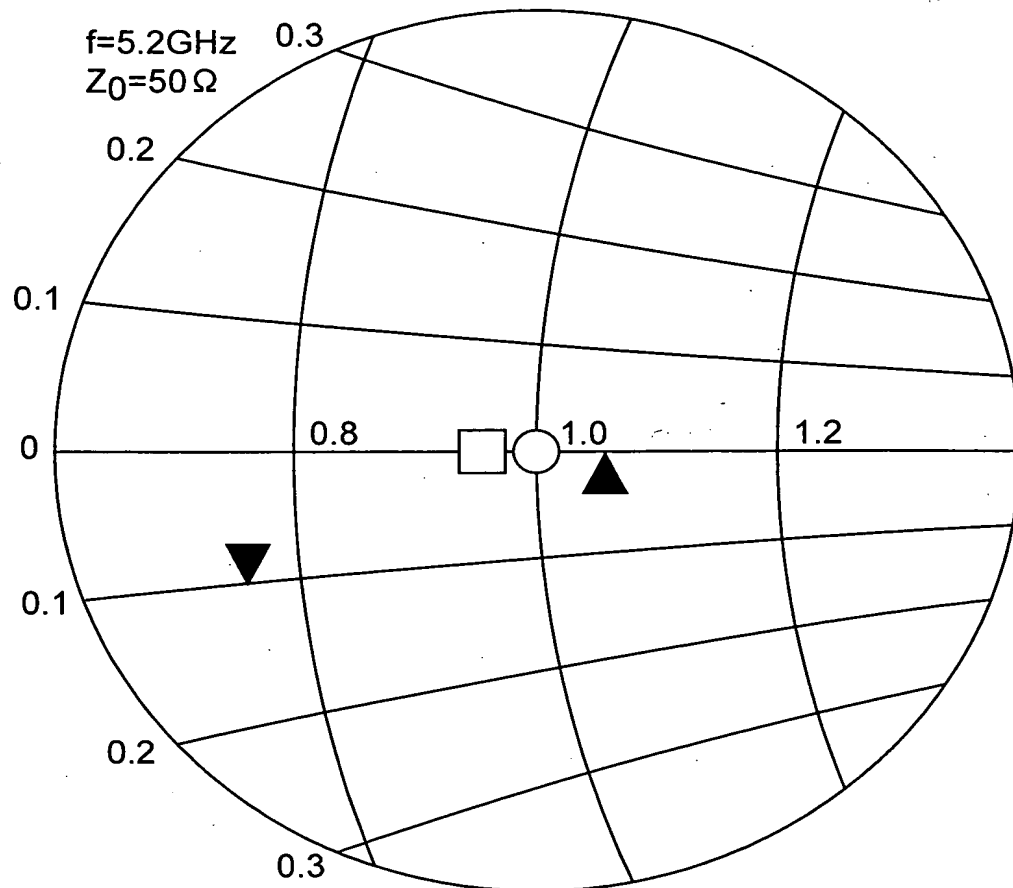


Fig.36

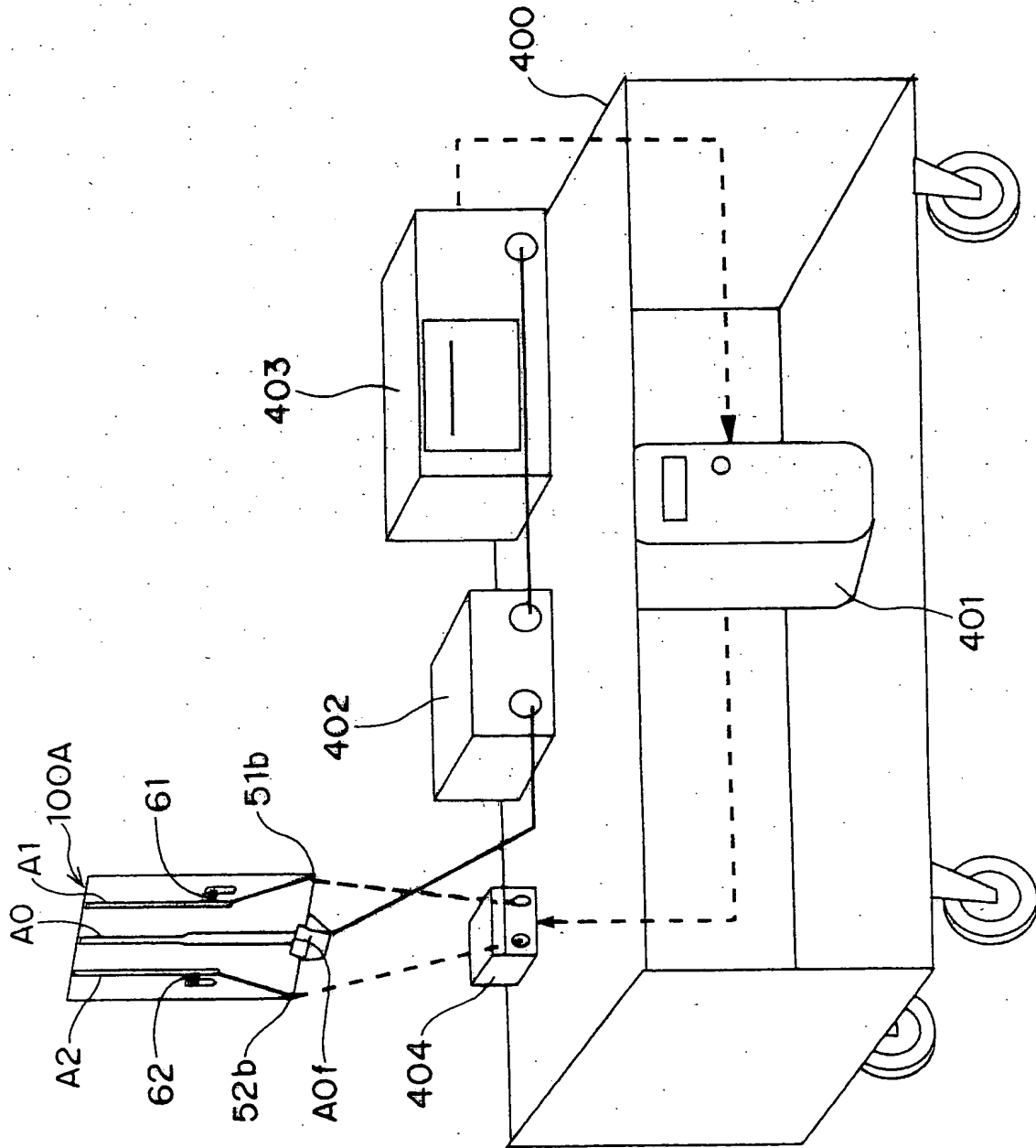


Fig.37



- |   |  |
|---|--|
| □ | THREE-ELEMENT ANTENNA APPARATUS, $(V_1, V_2)=(0, 25)[V]$ |
| ○ | THREE-ELEMENT ANTENNA APPARATUS, $(V_1, V_2)=(25, 0)[V]$ |
| ▲ | TWO-ELEMENT ANTENNA APPARATUS, $V=25[V]$                 |
| ▼ | TWO-ELEMENT ANTENNA APPARATUS, $V=0[V]$                  |

Fig. 38



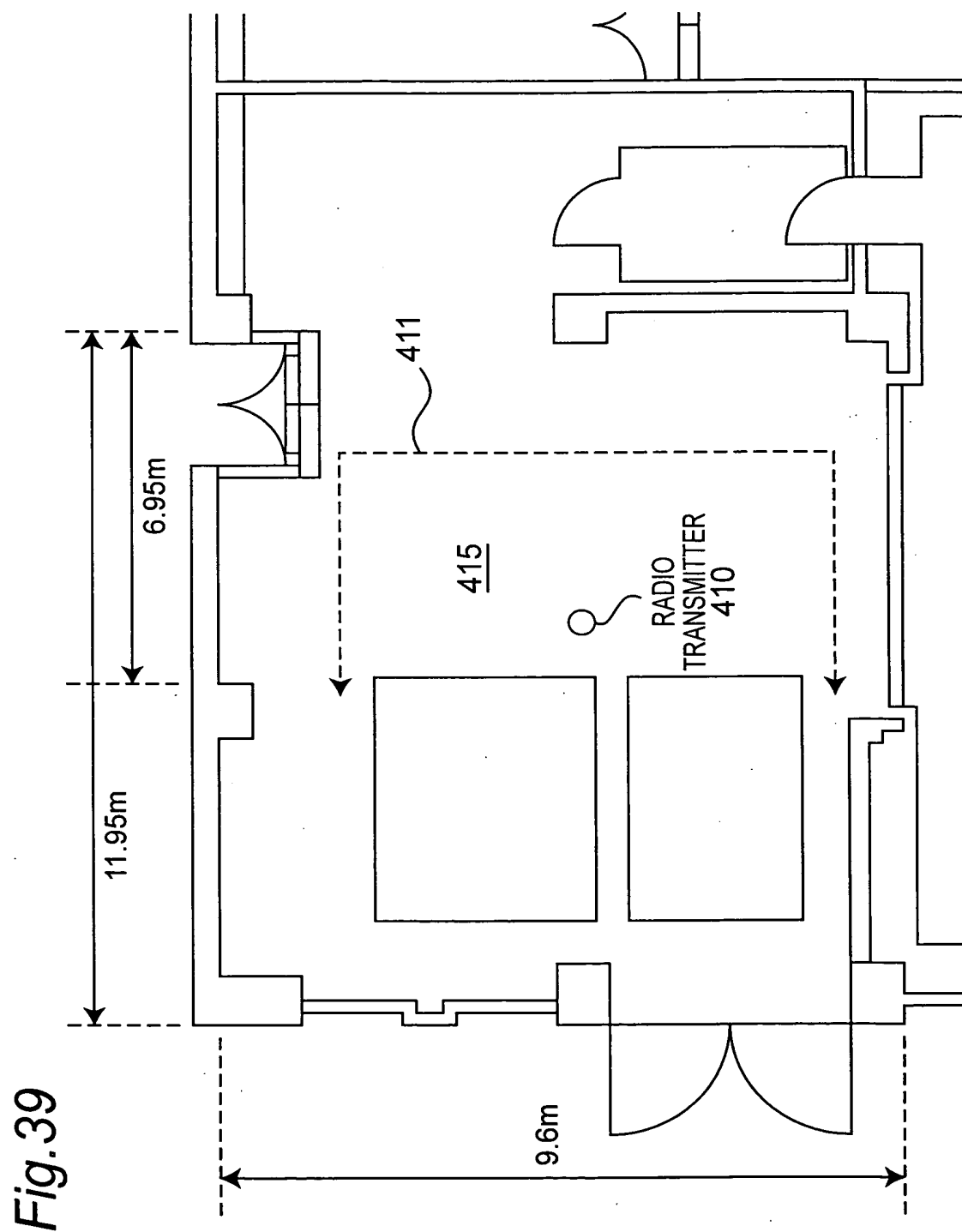


Fig. 40

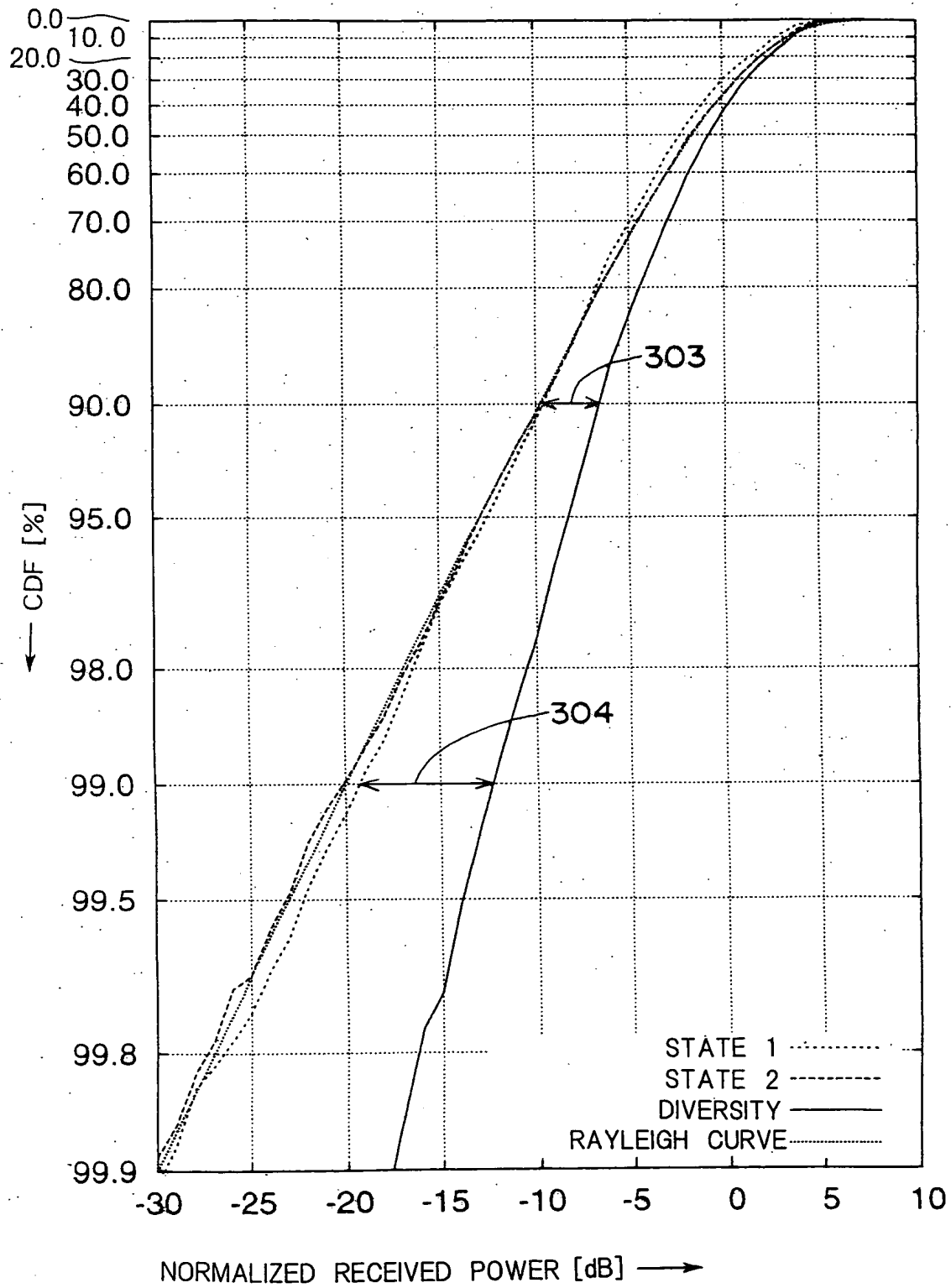
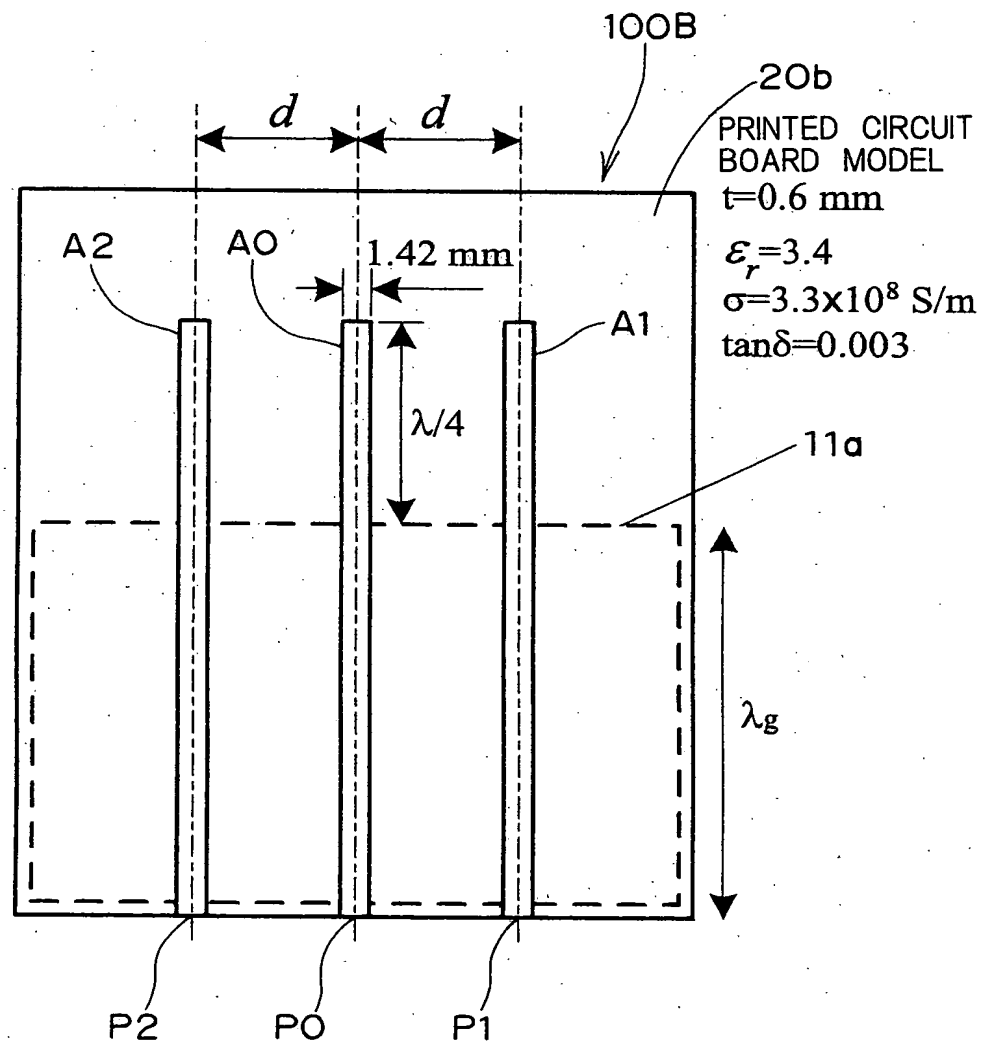


Fig. 41



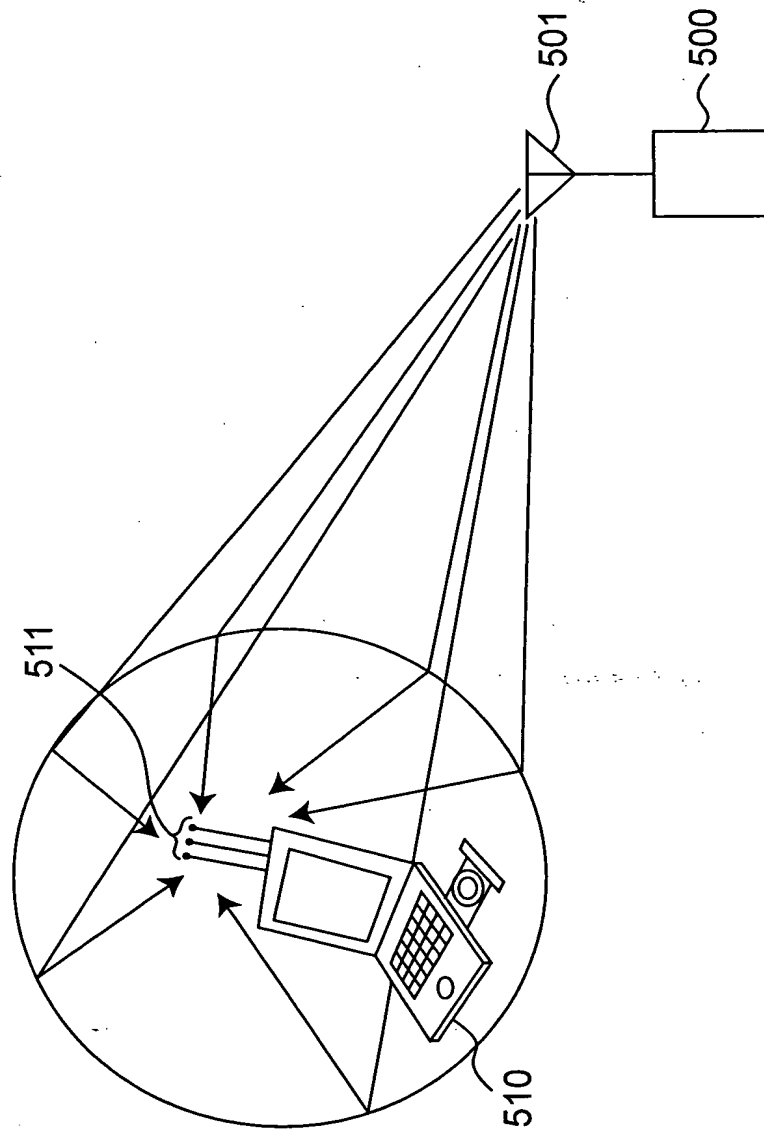


Fig. 42

Fig.43

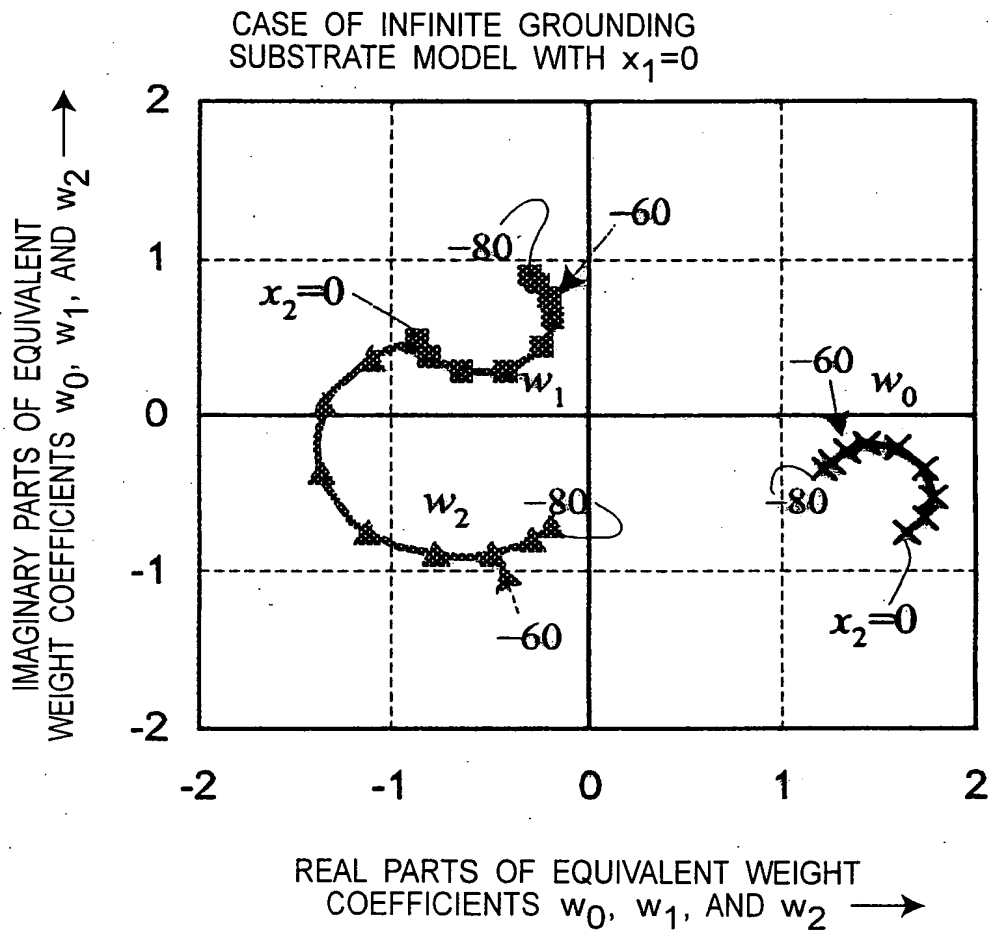


Fig. 44

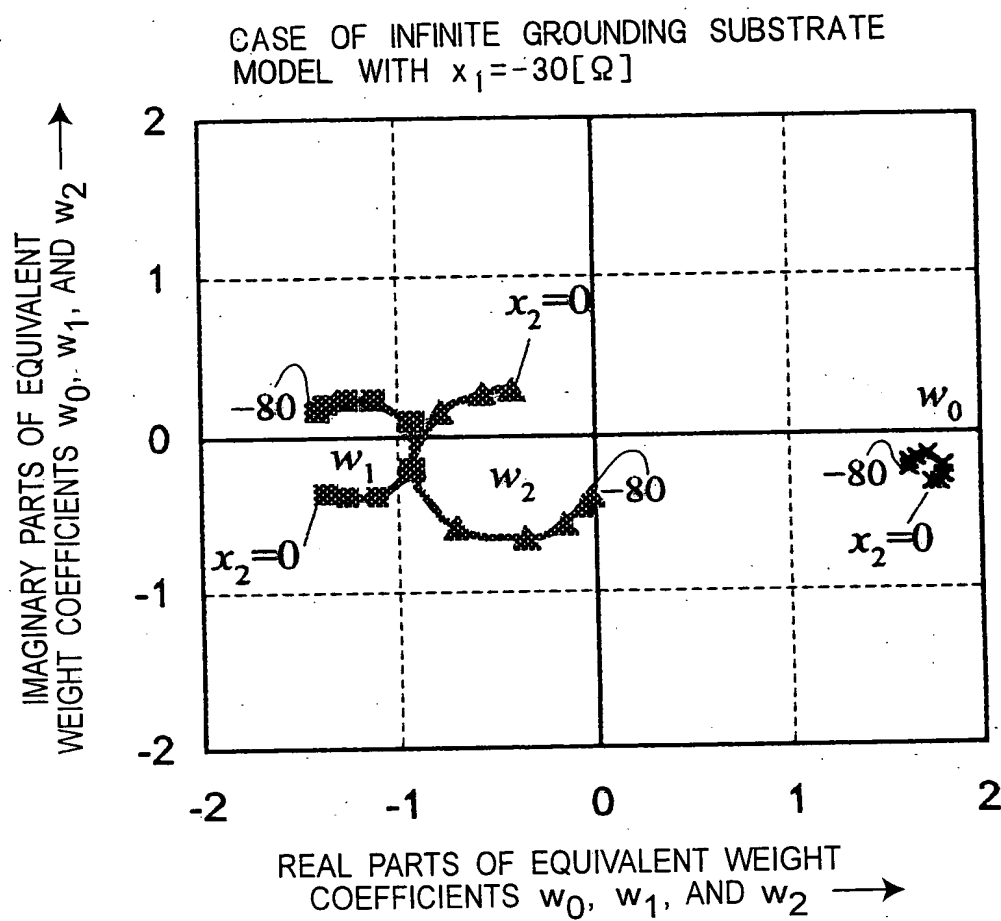




Fig.45

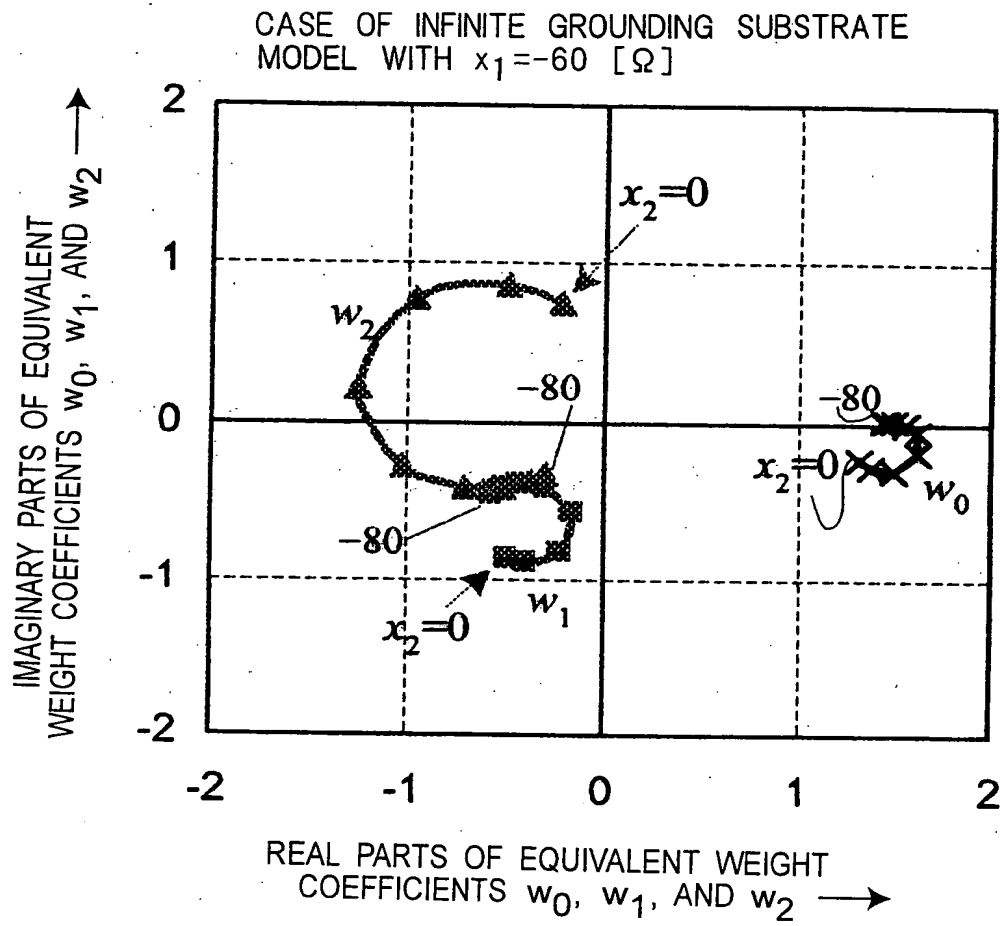


Fig.46

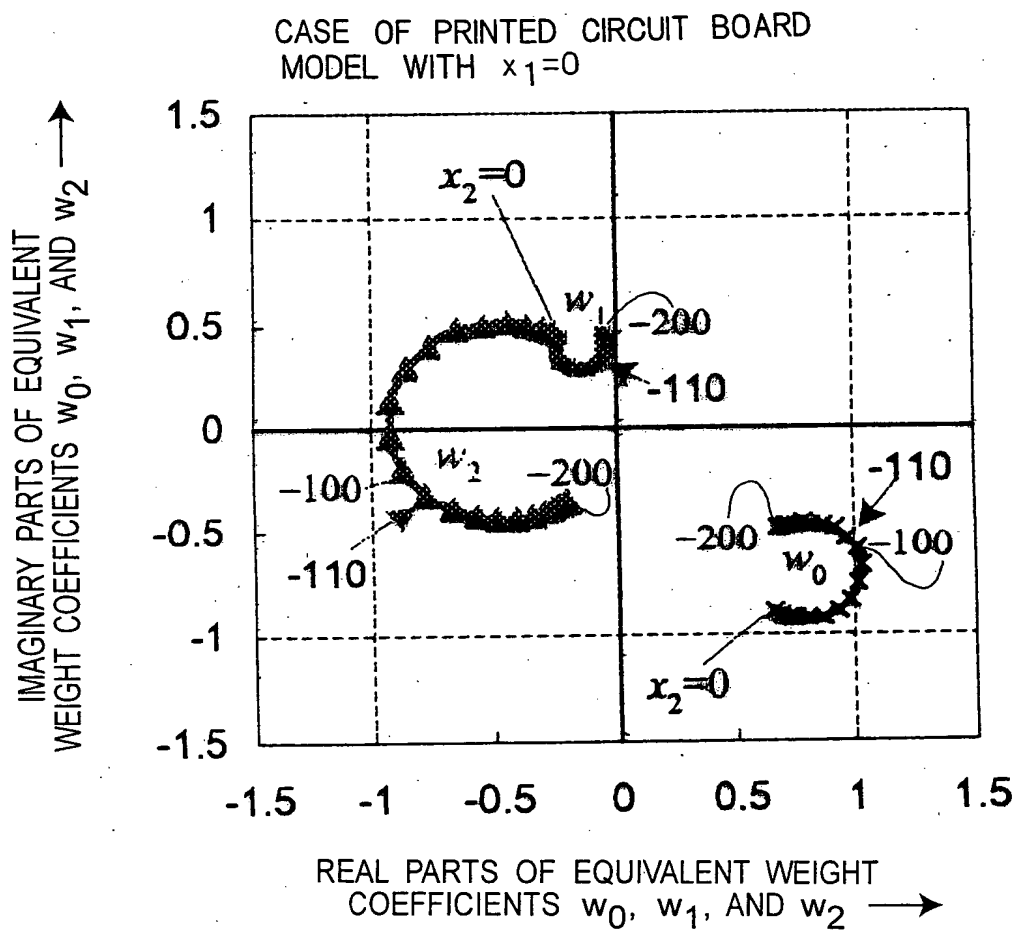


Fig.47

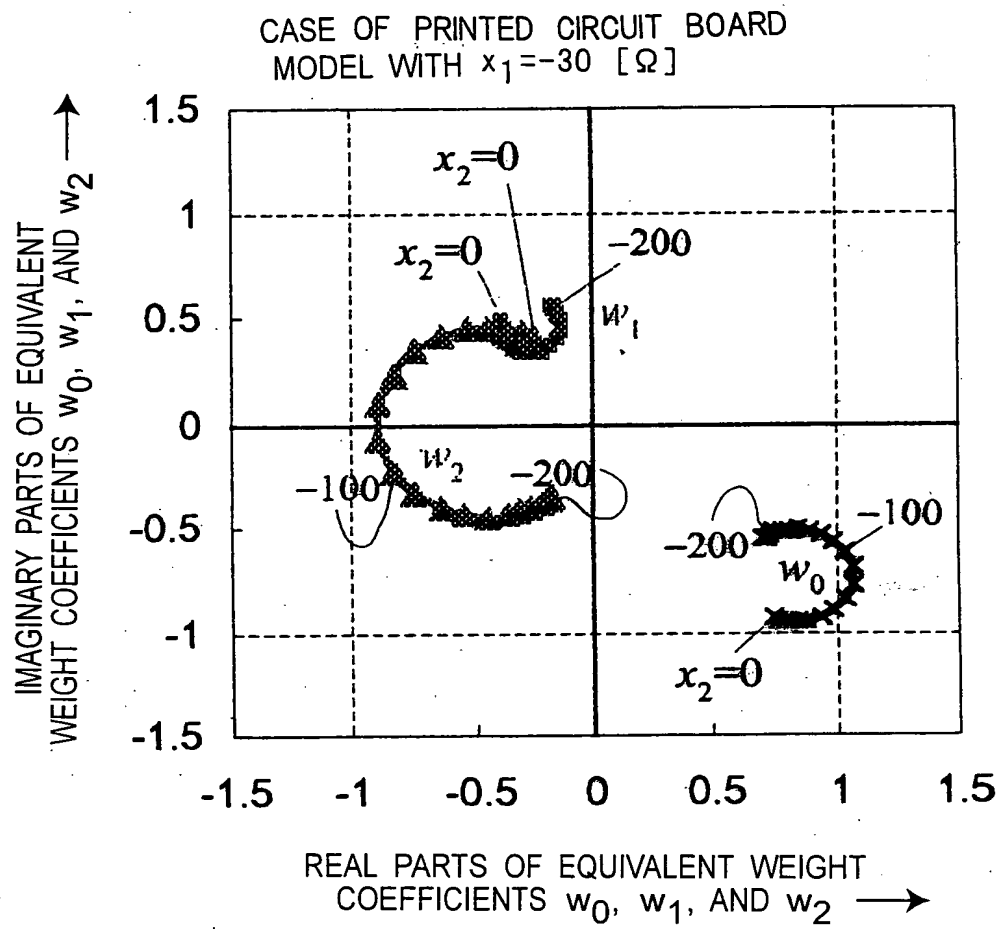
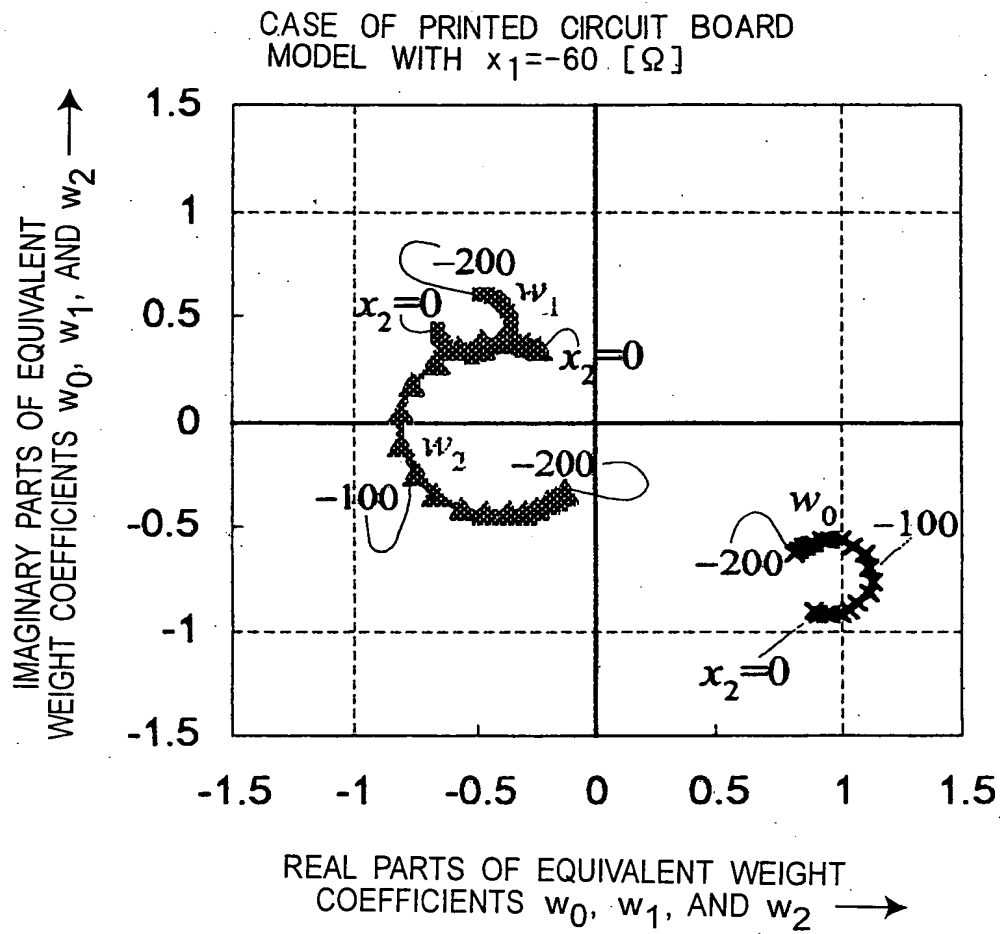
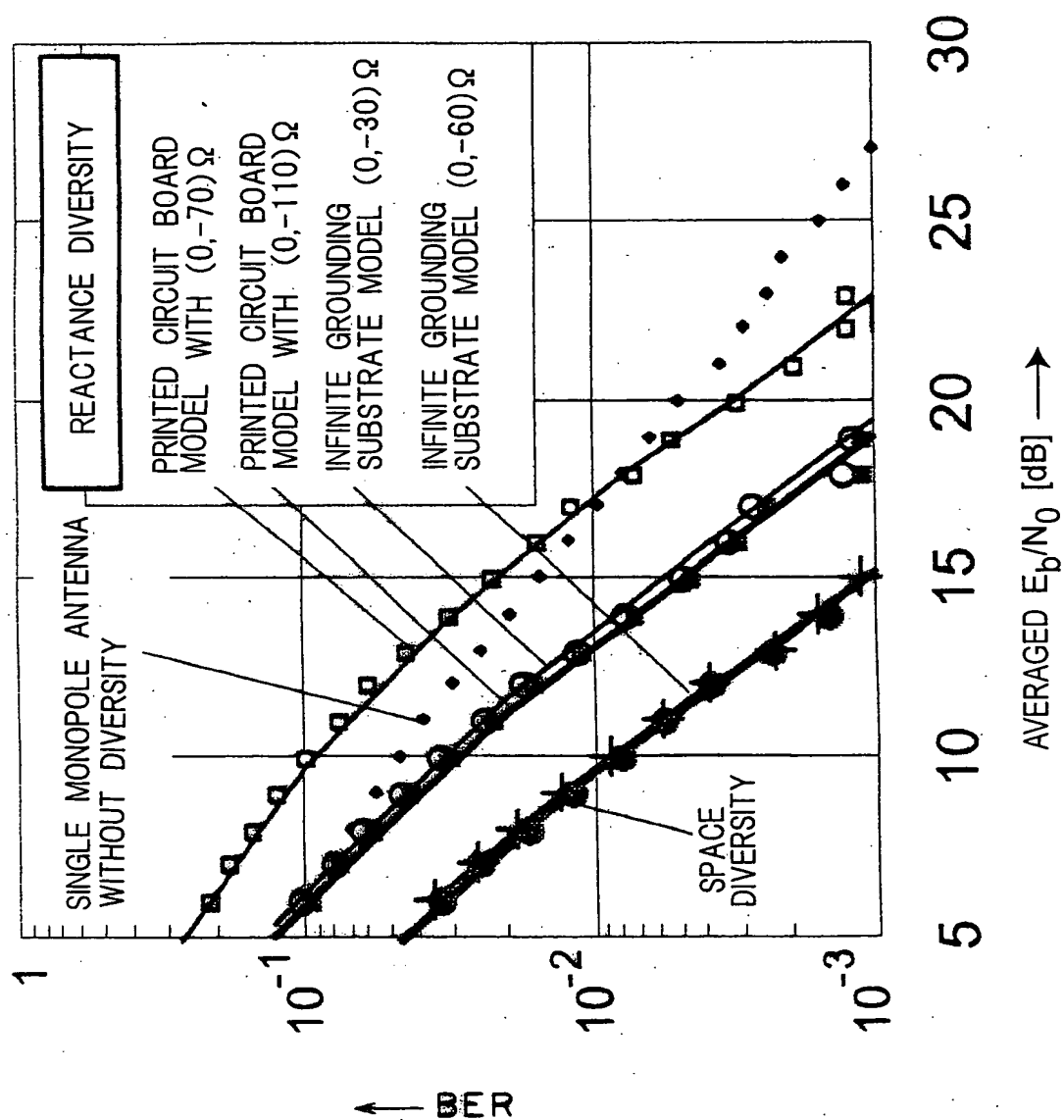


Fig.48





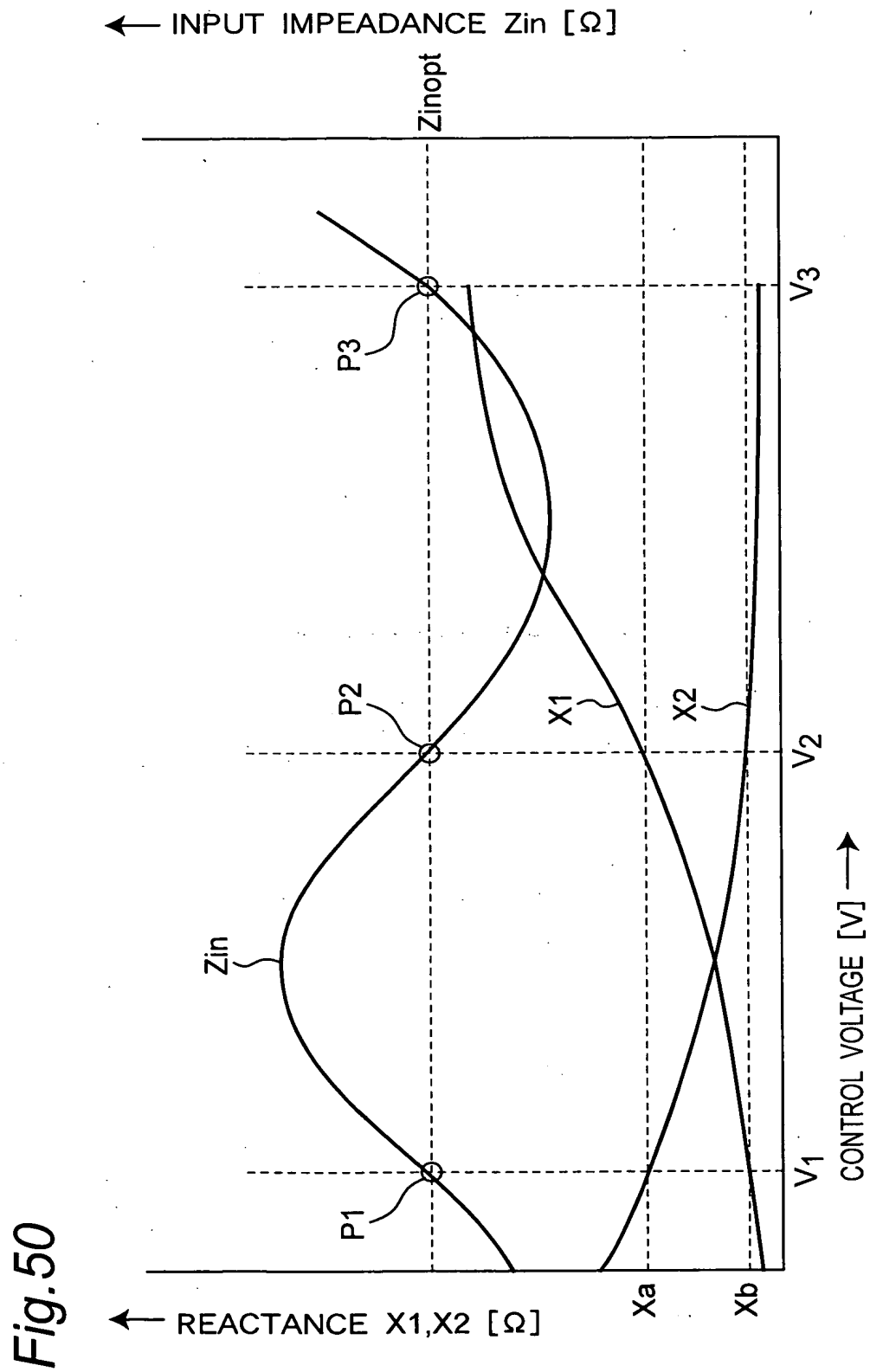


Fig.51

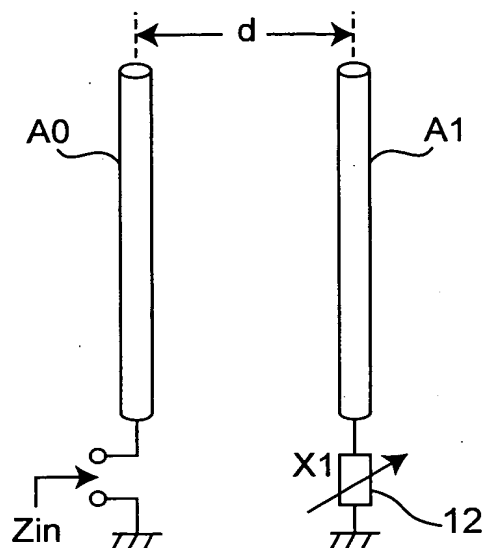


Fig.52

